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Indoor Distribution Test Report

Relevant Standards
IES LM-79-2008, ANSI C82.77-10-2014

Prepared For
Vokslyte

8020 Queenair Dr
Gaithersburg, MD 20879-4173
United States

Catalog Number

Tangent UP/Down SO 3000K

Order Number
14346055
Test Number
14346055.01

Test Date

2022-06-08

Prepared By

Josh Mitchell, Technician

Approved By

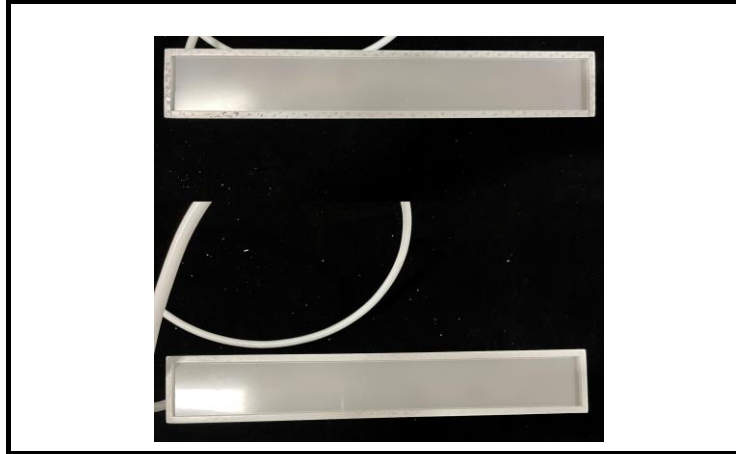
Shivani Vyas, Engineering Project Handler

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Luminaire Description: Cast aluminum housing, frosted lens enclosure
Lamp: Total 72 LEDs 36 up and downlight white LEDs
Mounting: Pendant

Luminaire



Luminaire Characteristics

Luminous Length: 12.00 in.
Luminous Width: 2.000 in.
Luminous Height: 7.75 in.

Summary of Results

Total Luminaire Output: 769.0 Lumens
Luminaire Efficacy: 67.4 lm/w
Maximum Candela: 176 Candela

Test Conditions

Test Temperature: 25.4 °C
Voltage: 120.0 VAC
Current: 0.09648 A
Power: 11.40 W
Power Factor: 0.984
Frequency: 60 Hz
Current THD: 10.0 %

Laboratory results may not be representative of field performance
Ballast factors have not been applied



Distribution - Goniophotometer

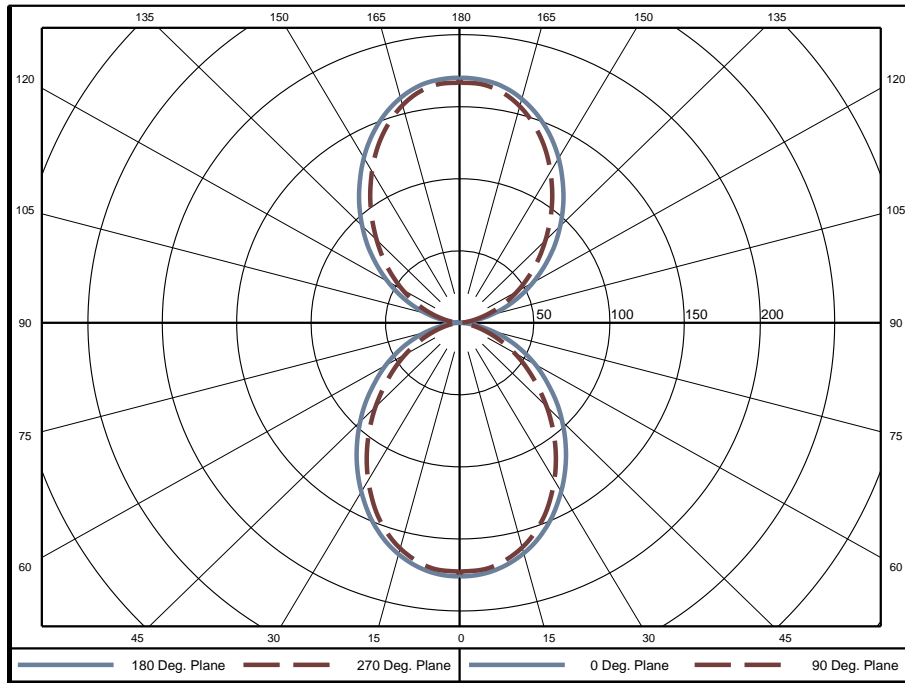
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.4 °C	120.0 VAC	0.09648 A	11.40 W	0.984	60 Hz	10.0 %

Summary of Results

Spacing Criteria	Total Lumen Output:	769.0 Lumens
0-180: 1.16	Luminaire Efficacy:	67.4 lm/w
90-270: 1.10	Maximum Candela:	176 Candela
Corrected UGR (Room Dimension: X=4H, Y=8H, Reflectances: 70/50/20%, S/H: 1)	Endwise:	10.8
Crosswise: 10.6		

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	4.16	0.5%	60-65	21.65	2.8%	120-125	26.06	3.4%
5-10	12.29	1.6%	65-70	16.68	2.2%	125-130	29.80	3.9%
10-15	19.77	2.6%	70-75	11.61	1.5%	130-135	32.75	4.3%
15-20	26.23	3.4%	75-80	6.92	0.9%	135-140	34.73	4.5%
20-25	31.29	4.1%	80-85	3.21	0.4%	140-145	35.63	4.6%
25-30	34.72	4.5%	85-90	1.13	0.1%	145-150	35.27	4.6%
30-35	36.59	4.8%	90-95	0.83	0.1%	150-155	33.49	4.4%
35-40	36.89	4.8%	95-100	3.28	0.4%	155-160	30.17	3.9%
40-45	35.76	4.7%	100-105	7.28	0.9%	160-165	25.31	3.3%
45-50	33.37	4.3%	105-110	12.06	1.6%	165-170	19.13	2.5%
50-55	30.02	3.9%	110-115	17.05	2.2%	170-175	11.88	1.5%
55-60	26.15	3.4%	115-120	21.77	2.8%	175-180	4.01	0.5%

Zone	Lumens	% of Luminaire
0-40	202	26.3%
0-60	327	42.6%
0-90	388	50.5%
90-180	381	49.5%



Candela Tabulation
Horizontal Angle (Degrees)

	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5
0	174.3	174.3	174.3	174.3	174.3	174.3	174.3	174.3	174.3	174.3	174.3	174.3	174.3	174.3	174.3	174.3
5	175.0	174.8	173.3	172.6	172.0	172.6	173.3	174.8	175.0	174.8	173.3	172.6	172.0	172.6	173.3	174.8
10	171.3	171.3	169.7	168.7	168.1	168.7	169.7	171.3	171.3	171.3	169.7	168.7	168.1	168.7	169.7	171.3
15	165.4	165.5	163.2	161.9	161.3	161.9	163.2	165.5	165.4	165.5	163.2	161.9	161.3	161.9	163.2	165.5
20	157.1	157.4	154.4	152.5	151.8	152.5	154.4	157.4	157.1	157.4	154.4	152.5	151.8	152.5	154.4	157.4
25	146.8	146.8	143.6	141.0	139.8	141.0	143.6	146.8	146.8	146.8	143.6	141.0	139.8	141.0	143.6	146.8
30	134.9	134.8	131.0	127.6	126.1	127.6	131.0	134.8	134.9	134.8	131.0	127.6	126.1	127.6	131.0	134.8
35	122.4	122.1	117.7	113.7	111.6	113.7	117.7	122.1	122.4	122.1	117.7	113.7	111.6	113.7	117.7	122.1
40	109.4	108.6	103.9	99.2	96.7	99.2	103.9	108.6	109.4	108.6	103.9	99.2	96.7	99.2	103.9	108.6
45	96.2	95.2	90.0	84.4	81.9	84.4	90.0	95.2	96.2	95.2	90.0	84.4	81.9	84.4	90.0	95.2
50	83.2	81.8	75.8	70.1	67.5	70.1	75.8	81.8	83.2	81.8	75.8	70.1	67.5	70.1	75.8	81.8
55	70.1	68.8	62.7	57.0	54.6	57.0	62.7	68.8	70.1	68.8	62.7	57.0	54.6	57.0	62.7	68.8
60	58.2	56.6	50.5	44.8	42.5	44.8	50.5	56.6	58.2	56.6	50.5	44.8	42.5	44.8	50.5	56.6
65	46.1	44.4	38.4	33.2	31.4	33.2	38.4	44.4	46.1	44.4	38.4	33.2	31.4	33.2	38.4	44.4
70	34.3	32.5	27.0	22.5	21.0	22.5	27.0	32.5	34.3	32.5	27.0	22.5	21.0	22.5	27.0	32.5
75	23.0	21.3	16.5	13.4	12.6	13.4	16.5	21.3	23.0	21.3	16.5	13.4	12.6	13.4	16.5	21.3
80	12.8	11.3	8.2	6.9	6.5	6.9	8.2	11.3	12.8	11.3	8.2	6.9	6.5	6.9	8.2	11.3
85	5.0	3.9	3.1	2.8	2.8	2.8	3.1	3.9	5.0	3.9	3.1	2.8	2.8	2.8	3.1	3.9
90	1.4	1.3	1.4	1.1	1.1	1.1	1.4	1.3	1.4	1.3	1.4	1.1	1.1	1.1	1.4	1.3
95	3.9	3.9	2.9	2.9	2.7	2.9	2.9	3.9	3.9	3.9	2.9	2.9	2.7	2.9	2.9	3.9
100	11.7	11.2	9.1	7.9	7.5	7.9	9.1	11.2	11.7	11.2	9.1	7.9	7.5	7.9	9.1	11.2
105	21.8	20.8	17.8	15.5	14.8	15.5	17.8	20.8	21.8	20.8	17.8	15.5	14.8	15.5	17.8	20.8
110	32.9	31.7	28.0	25.0	24.0	25.0	28.0	31.7	32.9	31.7	28.0	25.0	24.0	25.0	28.0	31.7
115	44.5	43.1	38.9	35.4	34.1	35.4	38.9	43.1	44.5	43.1	38.9	35.4	34.1	35.4	38.9	43.1
120	56.4	54.9	50.2	46.3	45.0	46.3	50.2	54.9	56.4	54.9	50.2	46.3	45.0	46.3	50.2	54.9
125	68.8	67.1	62.2	57.9	56.2	57.9	62.2	67.1	68.8	67.1	62.2	57.9	56.2	57.9	62.2	67.1
130	81.7	79.9	74.5	69.9	68.4	69.9	74.5	79.9	81.7	79.9	74.5	69.9	68.4	69.9	74.5	79.9
135	94.2	92.5	87.2	82.6	80.7	82.6	87.2	92.5	94.2	92.5	87.2	82.6	80.7	82.6	87.2	92.5
140	107.0	105.2	100.1	95.7	93.9	95.7	100.1	105.2	107.0	105.2	100.1	95.7	93.9	95.7	100.1	105.2
145	119.3	117.9	113.3	109.2	107.5	109.2	113.3	117.9	119.3	117.9	113.3	109.2	107.5	109.2	113.3	117.9
150	131.6	130.3	126.2	122.5	121.0	122.5	126.2	130.3	131.6	130.3	126.2	122.5	121.0	122.5	126.2	130.3
155	142.8	141.8	138.3	135.5	134.1	135.5	138.3	141.8	142.8	141.8	138.3	135.5	134.1	135.5	138.3	141.8
160	152.7	151.7	148.8	146.9	145.7	146.9	148.8	151.7	152.7	151.7	148.8	146.9	145.7	146.9	148.8	151.7
165	160.6	160.0	157.7	156.3	155.4	156.3	157.7	160.0	160.6	160.0	157.7	156.3	155.4	156.3	157.7	160.0
170	166.4	165.7	164.2	163.2	162.5	163.2	164.2	165.7	166.4	165.7	164.2	163.2	162.5	163.2	164.2	165.7
175	169.3	168.5	167.1	166.8	166.2	166.8	167.1	168.5	169.3	168.5	167.1	166.8	166.2	166.8	167.1	168.5
180	168.1	168.1	168.1	168.1	168.1	168.1	168.1	168.1	168.1	168.1	168.1	168.1	168.1	168.1	168.1	168.1

Average Luminance (cd/m²)
Horizontal Angle (Degrees)

	0	45	90
0	11260	11260	11260
45	5337	1958	1534
55	4108	1268	940
65	2953	747	515
75	1682	319	204
85	439	61	46

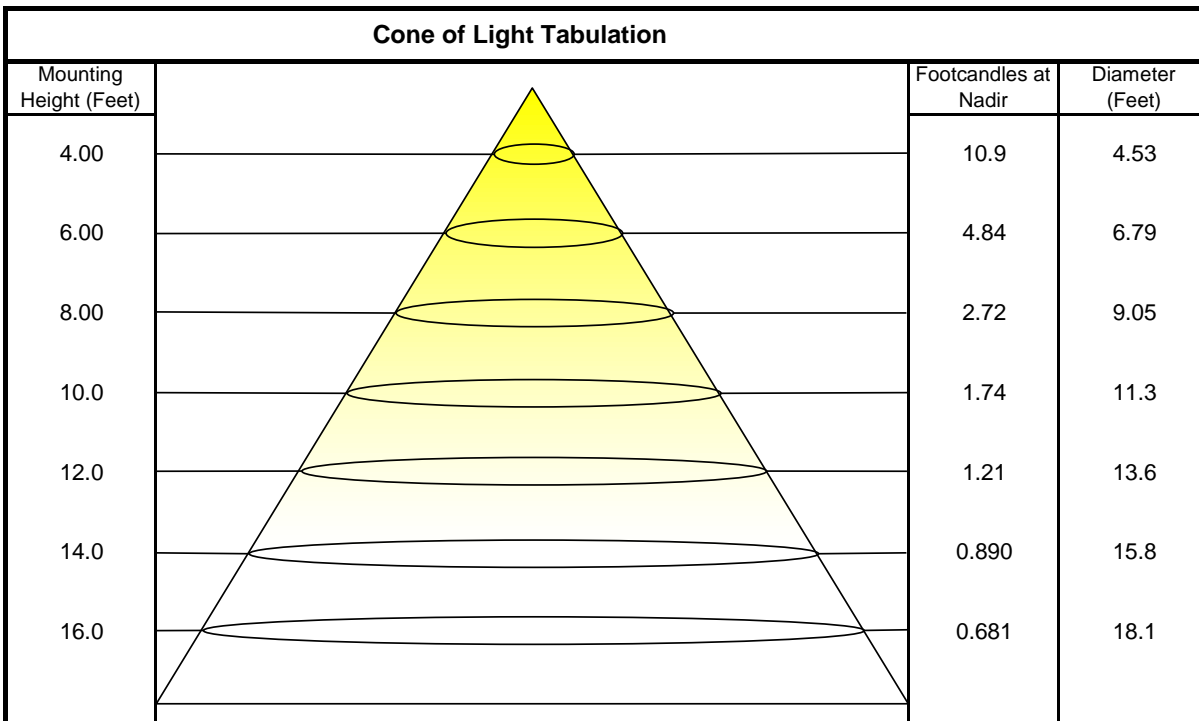


Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 20%

Ceiling Cavity Reflectance	80				70				50			30			10			0
Wall Reflectance	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
Room Cavity Ratio (RCR)	** Values are expressed as percent of total lumen output delivered to the task surface **																	
0	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51
1	98	94	90	87	91	87	84	81	74	72	70	62	60	59	51	50	49	43
2	90	83	77	72	83	77	71	67	65	61	58	55	52	50	45	43	42	37
3	82	73	66	60	76	68	61	56	58	53	49	49	45	42	40	38	36	32
4	75	65	57	51	69	60	53	48	52	46	42	44	40	37	36	33	31	28
5	69	58	50	44	64	54	47	42	46	41	37	39	35	32	33	30	27	24
6	64	52	44	38	59	49	41	36	42	36	32	36	31	28	30	27	24	21
7	59	47	39	34	55	44	37	32	38	33	29	33	28	25	27	24	22	19
8	55	43	35	30	51	40	33	28	35	29	25	30	26	22	25	22	19	17
9	51	39	32	27	47	37	30	26	32	27	23	28	23	20	23	20	18	16
10	48	36	29	24	44	34	27	23	29	24	21	25	21	18	22	18	16	14

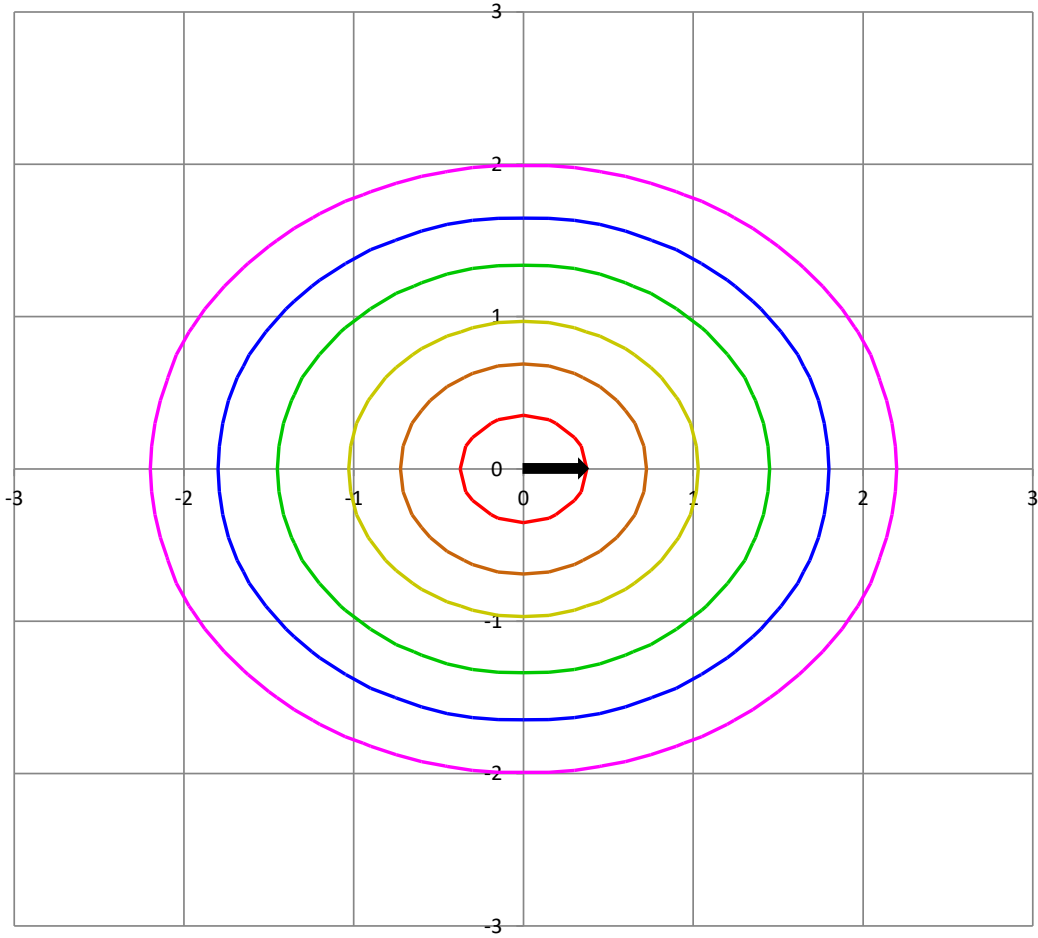
Beam and Field Information	
CIE Type:	Direct/Indirect
Center Beam Intensity:	174.3 Candela
Central Cone Intensity:	174 Candela
Beam Flux:	476.4 Lumens
Beam Angle (0-180):	97.0 Degrees
Beam Angle (90-270):	86.4 Degrees
Field Angle (0-180):	155.2 Degrees
Field Angle (90-270):	143.9 Degrees





ISOFootcandle Plot

Mounting Height - 8 Feet



Grid Lines in Units of Mounting Height

