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Allentown, PA 18106
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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 Down SO 3000K

Order Number
13939071
Test Number
13939071.02

Test Date

2021-07-30

Prepared By

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Approved By

Alexa Lambert, Project Handler

The results contained in this report pertain only to the tested sample.
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Luminaire Description: Cast aluminum housing, frosted lens enclosure
Lamp: 36 white LEDs
Mounting: Recessed

Luminaire



Luminaire Characteristics

Luminous Length: 12.00 in.
Luminous Width: 1.500 in.

Summary of Results

Total Luminaire Output: 376.2 Lumens
Luminaire Efficacy: 66.4 lm/w
Maximum Candela: 162 Candela

Test Conditions

Test Temperature: 25.9 °C
Voltage: 120.0 VAC
Current: 0.04966 A
Power: 5.667 W
Power Factor: 0.951
Frequency: 60 Hz
Current THD: 14.4 %

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



Distribution - Goniophotometer

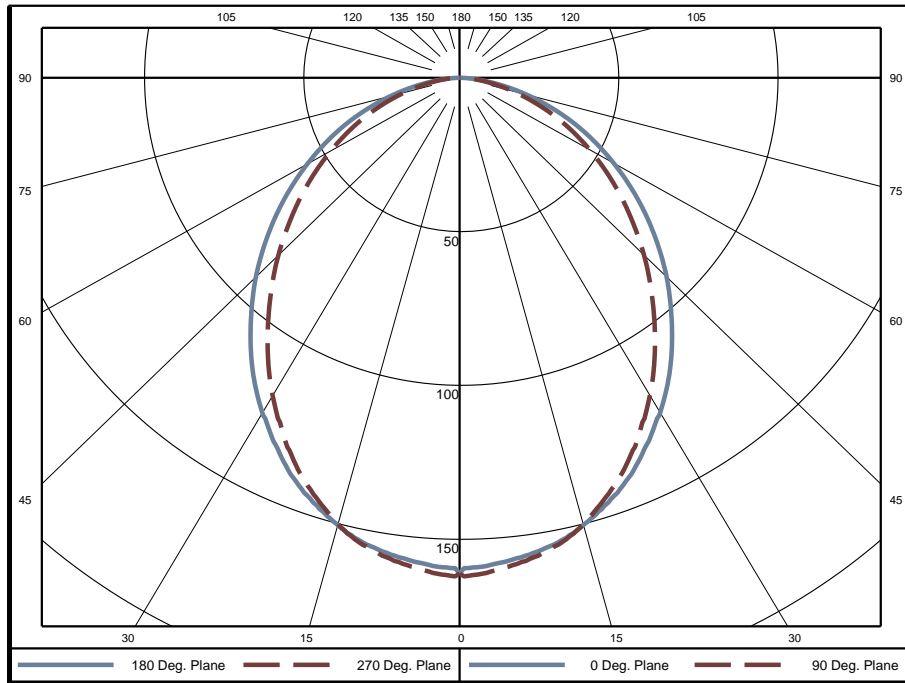
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.9 °C	120.0 VAC	0.04966 A	5.667 W	0.951	60 Hz	14.4 %

Summary of Results

Spacing Criteria	Total Lumen Output:	376.2 Lumens
0-180: 1.16	Luminaire Efficacy:	66.4 lm/w
90-270: 1.11	Maximum Candela:	162 Candela
Corrected UGR (Room Dimension: X=4H, Y=8H, Reflectances: 70/50/20%, S/H: 1)	Endwise:	22.7
Crosswise: 23.8		

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	3.83	1.0%	60-65	22.17	5.9%	120-125	0	0.0%
5-10	11.28	3.0%	65-70	17.70	4.7%	125-130	0	0.0%
10-15	18.20	4.8%	70-75	12.87	3.4%	130-135	0	0.0%
15-20	24.13	6.4%	75-80	8.19	2.2%	135-140	0	0.0%
20-25	28.89	7.7%	80-85	4.11	1.1%	140-145	0	0.0%
25-30	32.24	8.6%	85-90	1.17	0.3%	145-150	0	0.0%
30-35	34.26	9.1%	90-95	0	0.0%	150-155	0	0.0%
35-40	34.78	9.2%	95-100	0	0.0%	155-160	0	0.0%
40-45	34.12	9.1%	100-105	0	0.0%	160-165	0	0.0%
45-50	32.35	8.6%	105-110	0	0.0%	165-170	0	0.0%
50-55	29.67	7.9%	110-115	0	0.0%	170-175	0	0.0%
55-60	26.20	7.0%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	188	49.9%
0-60	310	82.4%
0-90	376	100.0%
90-180	0	0.0%



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	161.1	161.1	161.1	161.1	161.1	161.1	161.1	161.1	161.1	161.1	161.1	161.1	161.1	161.1	161.1	161.1
5	158.0	158.8	159.6	160.1	159.8	160.1	159.6	158.8	158.0	158.8	159.6	160.1	159.8	160.1	159.6	158.8
10	155.1	155.8	156.3	156.6	156.2	156.6	156.3	155.8	155.1	155.8	156.3	156.6	156.2	156.6	156.3	155.8
15	150.1	150.7	150.7	150.4	149.8	150.4	150.7	150.7	150.1	150.7	150.7	150.4	149.8	150.4	150.7	150.7
20	143.5	143.5	142.8	141.7	141.1	141.7	142.8	143.5	143.5	143.5	142.8	141.7	141.1	141.7	142.8	143.5
25	134.6	134.2	132.8	131.6	130.6	131.6	132.8	134.2	134.6	134.2	132.8	131.6	130.6	131.6	132.8	134.2
30	125.0	124.5	122.4	120.1	118.8	120.1	122.4	124.5	125.0	124.5	122.4	120.1	118.8	120.1	122.4	124.5
35	114.3	113.3	110.7	107.7	106.2	107.7	110.7	113.3	114.3	113.3	110.7	107.7	106.2	107.7	110.7	113.3
40	102.5	101.5	98.5	95.0	93.5	95.0	98.5	101.5	102.5	101.5	98.5	95.0	93.5	95.0	98.5	101.5
45	90.9	89.7	86.4	82.7	81.3	82.7	86.4	89.7	90.9	89.7	86.4	82.7	81.3	82.7	86.4	89.7
50	78.8	77.6	74.3	70.7	69.2	70.7	74.3	77.6	78.8	77.6	74.3	70.7	69.2	70.7	74.3	77.6
55	66.9	65.7	62.5	59.2	57.8	59.2	62.5	65.7	66.9	65.7	62.5	59.2	57.8	59.2	62.5	65.7
60	55.2	54.1	51.1	48.1	46.9	48.1	51.1	54.1	55.2	54.1	51.1	48.1	46.9	48.1	51.1	54.1
65	43.9	42.9	40.3	37.6	36.7	37.6	40.3	42.9	43.9	42.9	40.3	37.6	36.7	37.6	40.3	42.9
70	32.7	31.9	29.6	27.5	26.8	27.5	29.6	31.9	32.7	31.9	29.6	27.5	26.8	27.5	29.6	31.9
75	22.1	21.5	19.7	18.1	17.6	18.1	19.7	21.5	22.1	21.5	19.7	18.1	17.6	18.1	19.7	21.5
80	12.4	12.2	11.0	10.1	9.8	10.1	11.0	12.2	12.4	12.2	11.0	10.1	9.8	10.1	11.0	12.2
85	4.6	4.7	4.4	4.2	4.2	4.2	4.4	4.7	4.6	4.7	4.4	4.2	4.2	4.2	4.4	4.7
90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Average Luminance (cd/m²)

Horizontal Angle (Degrees)

	0	45	90
0	13870	13870	13870
45	11070	10520	9895
55	10050	9387	8678
65	8945	8207	7474
75	7353	6567	5854
85	4547	4304	4154

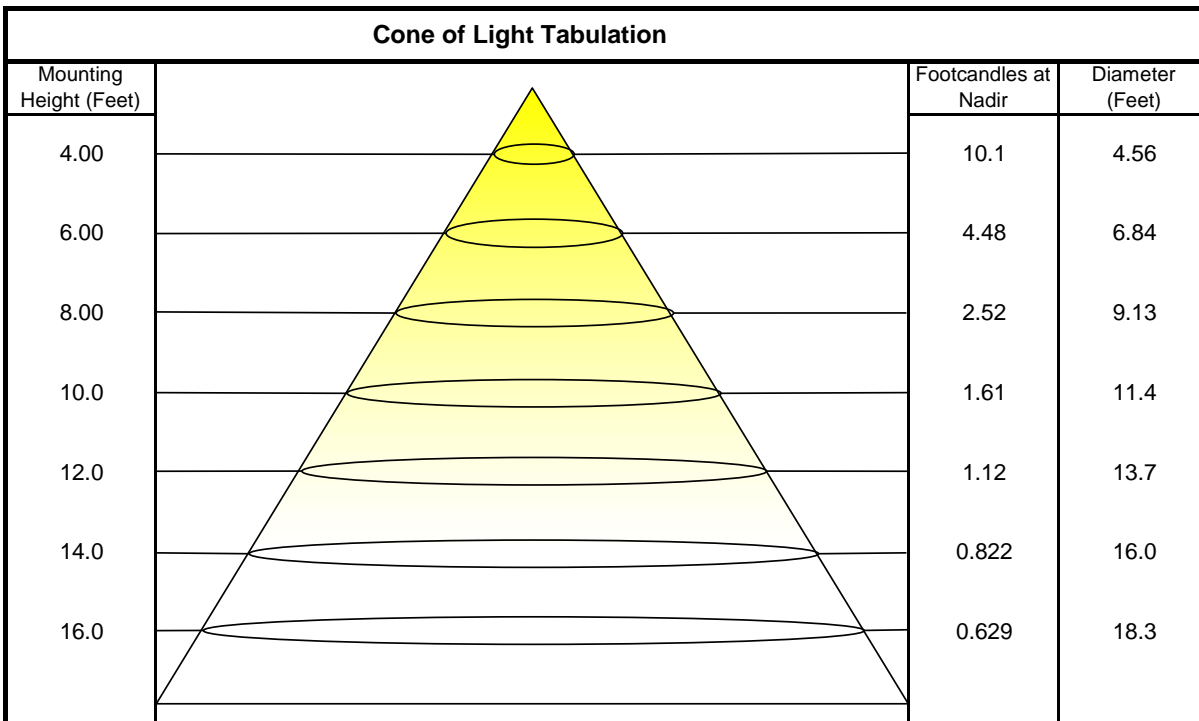


Coefficients of Utilization - Zonal Cavity Method

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55	53
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	44	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	44	39	49	43	38	36
8	62	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27

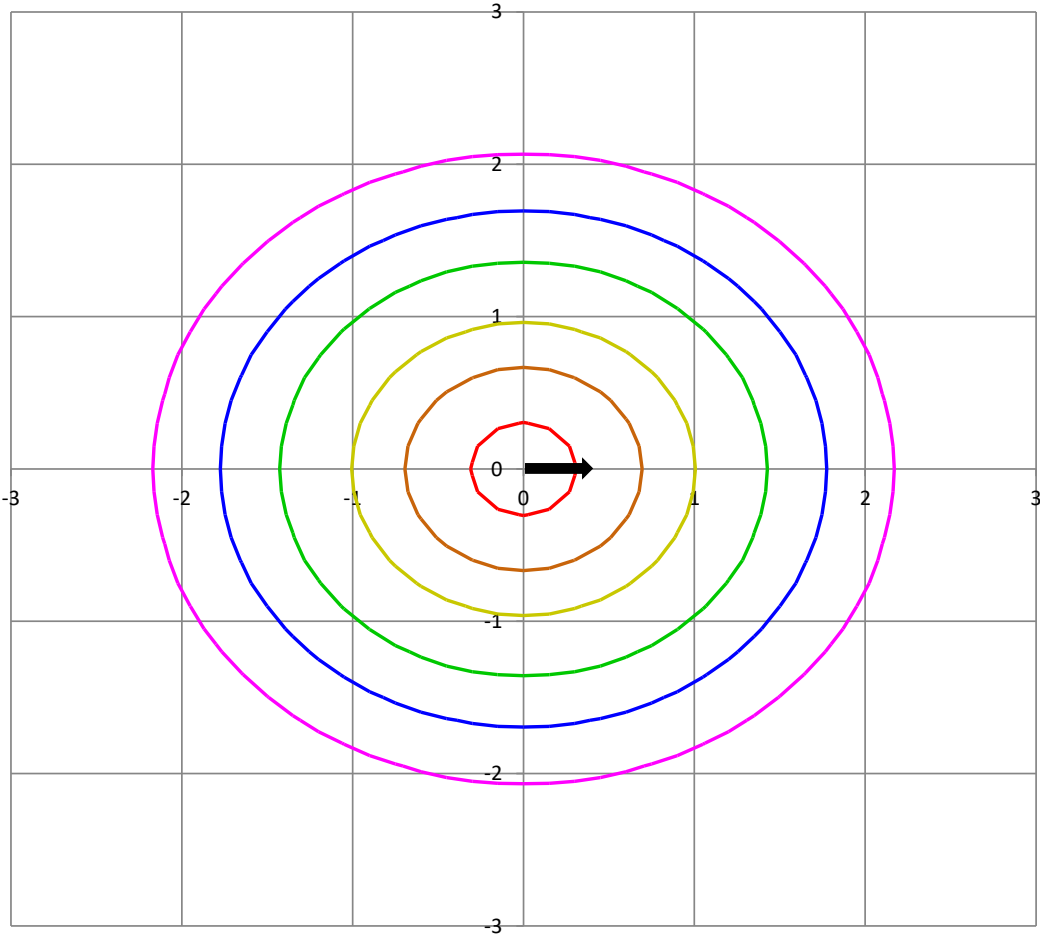
Beam and Field Information	
CIE Type:	Direct
Center Beam Intensity:	161.1 Candela
Central Cone Intensity:	160 Candela
Beam Flux:	237.2 Lumens
Beam Angle (0-180):	98.5 Degrees
Beam Angle (90-270):	90.6 Degrees
Field Angle (0-180):	156.0 Degrees
Field Angle (90-270):	151.8 Degrees





ISOFootcandle Plot

Mounting Height - 8 Feet



Grid Lines in Units of Mounting Height

