

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: CORELITE

Report Number: P385287

Luminaire Tested: **22ID-20-L835-CNV**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385287
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-73)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 22ID-20-L835-CNV
Description: 2X2 IN DEPTH TROFFER WITH CONVEX LENS

Light Source: -
Ballast/Driver: -

Summary

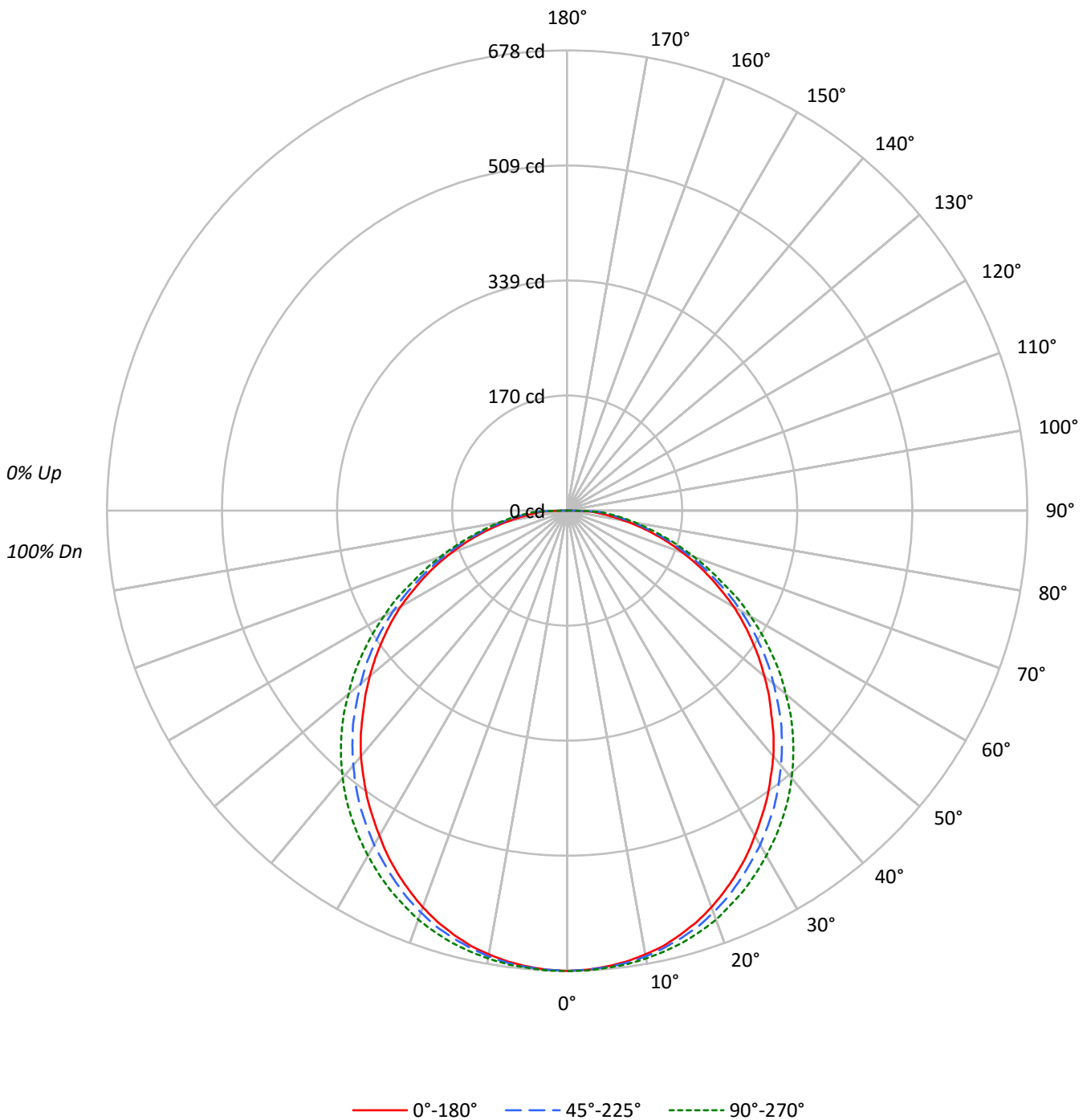
Lumens per Lamp: N/A
Luminaire Lumens: 1967.2 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.17')
CIE Type: Direct

Input Watts (W): 16.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	94	105	101	97	93	96	93	90	93	90	87	89	87	85	82
2	98	90	82	77	95	88	81	76	84	79	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1825	1825	1825
5°	1808	1805	1813
10°	1788	1785	1805
15°	1762	1760	1795
20°	1729	1730	1783
25°	1687	1693	1763
30°	1641	1655	1741
35°	1597	1614	1718
40°	1552	1566	1690
45°	1495	1518	1653
50°	1445	1457	1601
55°	1390	1397	1544
60°	1333	1321	1467
65°	1254	1227	1365
70°	1159	1125	1271
75°	1047	1012	1160
80°	893	894	1066
85°	761	808	1018



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.2	3.3
10°-20°	183.9	9.3
20°-30°	277.5	14.1
30°-40°	333.1	16.9
40°-50°	344.8	17.5
50°-60°	312.3	15.9
60°-70°	240.6	12.2
70°-80°	148.9	7.6
80°-90°	61.8	3.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	525.6	26.7
0°-40°	858.8	43.7
0°-60°	1515.8	77.1
0°-90°	1967.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1967.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	678	678	678	678	678	
5°	674	674	675	675	676	64
15°	646	648	652	656	659	182
25°	590	592	602	612	617	272
35°	515	519	532	546	553	322
45°	426	432	446	462	471	329
55°	332	337	348	363	368	297
65°	232	234	241	252	253	230
75°	132	135	140	146	146	140
85°	48	53	61	66	64	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	678.3	678.3	678.3	678.3	678.3
2.5°	677.2	677.2	677.2	677.2	678.3
5°	674.2	674.2	675.2	675.2	676.2
7.5°	670.1	670.1	672.1	672.1	674.2
10°	663.9	665.0	667.0	668.0	670.1
12.5°	656.8	656.8	659.8	662.9	665.0
15°	646.5	647.6	651.7	655.7	658.8
17.5°	635.3	636.3	642.4	646.5	650.6
20°	622.0	623.0	630.2	636.3	641.4
22.5°	606.6	608.7	616.9	625.1	629.1
25°	590.3	592.3	601.5	611.8	616.9
27.5°	572.9	576.0	585.2	596.4	602.5
30°	553.4	557.5	568.8	581.1	587.2
32.5°	534.0	538.1	550.4	564.7	570.8
35°	514.6	518.7	532.0	546.3	553.4
37.5°	493.1	497.2	511.5	526.8	535.0
40°	472.6	476.7	490.0	507.4	514.6
42.5°	450.1	454.2	468.5	484.9	493.1
45°	425.6	431.7	446.0	462.4	470.6
47.5°	403.1	408.2	421.5	438.9	447.1
50°	379.5	384.6	396.9	414.3	420.5
52.5°	356.0	361.1	373.4	389.8	395.9
55°	331.5	336.6	347.8	363.2	368.3
57.5°	307.9	312.0	322.2	336.6	340.7
60°	283.4	287.5	295.6	308.9	312.0
62.5°	256.8	259.8	269.0	281.3	285.4
65°	232.2	234.3	241.4	251.7	252.7
67.5°	206.6	208.7	215.9	223.0	226.1
70°	181.1	184.1	189.3	196.4	198.5
72.5°	156.5	159.6	164.7	170.8	171.9
75°	132.0	135.0	140.2	146.3	146.3
77.5°	108.4	111.5	117.6	122.8	122.8
80°	84.9	90.0	96.2	101.3	101.3
82.5°	65.5	69.6	77.7	81.8	81.8
85°	48.1	53.2	61.4	65.5	64.4
87.5°	34.8	39.9	47.1	50.1	49.1
90°	0.0	0.0	0.0	0.0	0.0



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	13.00	14.66	13.37	14.97	15.29	13.56	15.22	13.92	15.53	15.85
	3H	14.77	16.27	15.14	16.60	16.96	15.32	16.82	15.70	17.15	17.51
	4H	15.44	16.86	15.84	17.21	17.58	16.01	17.43	16.40	17.78	18.15
	6H	15.95	17.27	16.36	17.63	18.02	16.57	17.89	16.98	18.25	18.64
	8H	16.12	17.39	16.55	17.77	18.17	16.79	18.06	17.22	18.44	18.84
	12H	16.26	17.47	16.69	17.85	18.28	16.99	18.20	17.42	18.58	19.01
4H	2H	13.65	15.07	14.04	15.41	15.79	14.09	15.51	14.49	15.86	16.23
	3H	15.63	16.83	16.04	17.22	17.62	16.08	17.28	16.49	17.68	18.08
	4H	16.42	17.51	16.85	17.93	18.36	16.91	18.00	17.34	18.41	18.85
	6H	17.06	18.02	17.51	18.46	18.91	17.62	18.58	18.07	19.02	19.47
	8H	17.29	18.19	17.75	18.63	19.09	17.91	18.81	18.37	19.25	19.71
	12H	17.48	18.29	17.96	18.77	19.23	18.18	18.99	18.66	19.46	19.93
8H	4H	16.76	17.66	17.22	18.10	18.57	17.20	18.09	17.65	18.53	19.00
	6H	17.53	18.28	18.02	18.77	19.24	18.04	18.80	18.54	19.28	19.76
	8H	17.84	18.52	18.35	19.02	19.51	18.43	19.11	18.94	19.61	20.09
	12H	18.13	18.73	18.63	19.22	19.78	18.81	19.41	19.32	19.90	20.46
12H	4H	16.81	17.62	17.29	18.10	18.57	17.23	18.04	17.71	18.51	18.98
	6H	17.62	18.29	18.12	18.80	19.28	18.11	18.78	18.61	19.29	19.77
	8H	18.00	18.60	18.50	19.09	19.64	18.56	19.16	19.06	19.65	20.21