

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: P383720

Luminaire Tested: **14ID-20-L840-CFR1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P383720
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-65)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 14ID-20-L840-CFR1
Description: 1X4 IN DEPTH TROFFER WITH 1INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

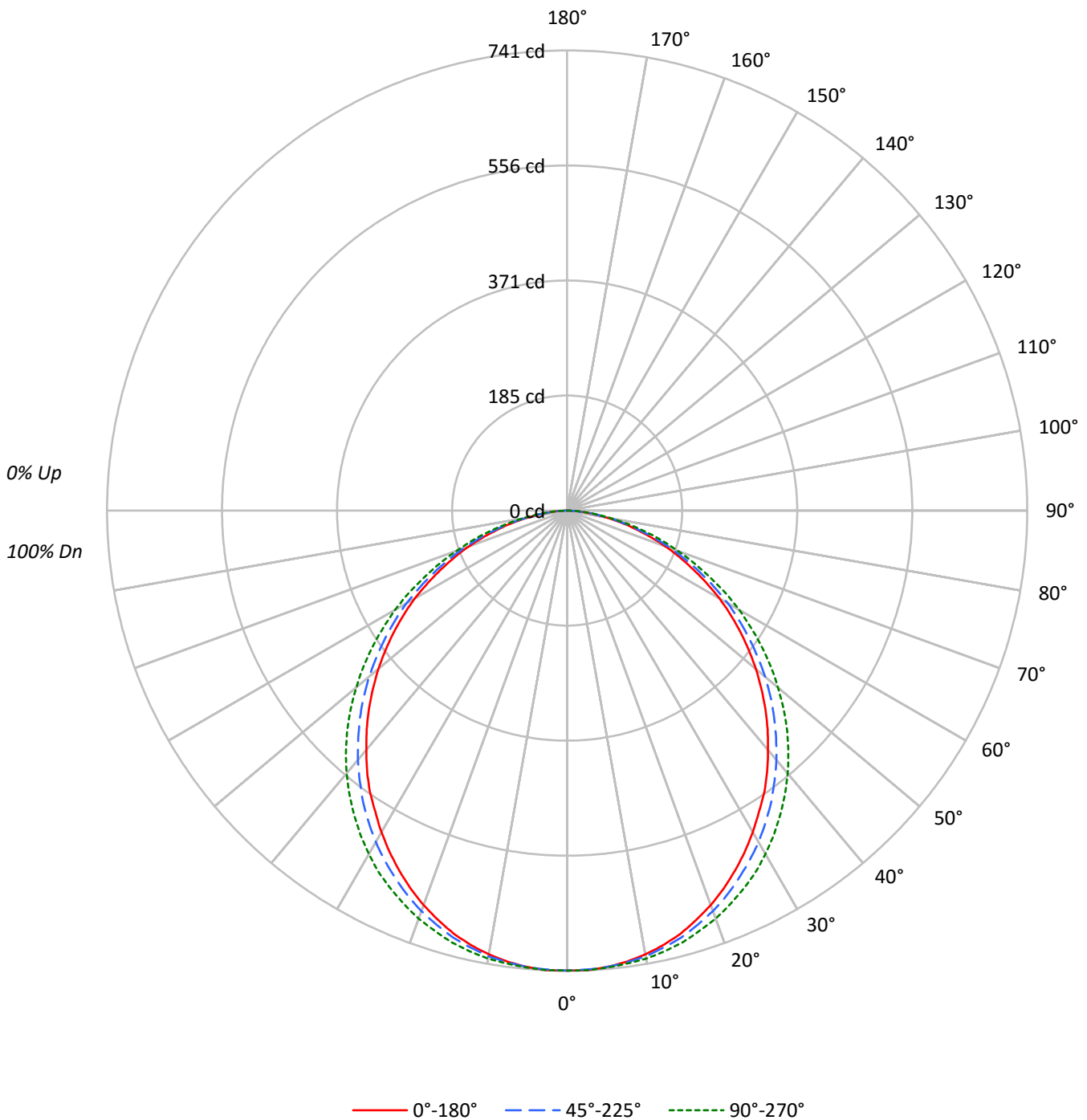
Lumens per Lamp: N/A
Luminaire Lumens: 2012.0 lumens
Efficiency: N/A
Efficacy: 121.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.35
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 16.5
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	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	81	76	82	78	74	79	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1993	1993	1993
5°	1993	1993	1996
10°	1983	1991	2002
15°	1965	1982	2005
20°	1936	1965	2003
25°	1899	1941	1995
30°	1858	1915	1984
35°	1819	1882	1965
40°	1767	1842	1941
45°	1718	1795	1907
50°	1661	1742	1856
55°	1596	1676	1795
60°	1525	1607	1721
65°	1424	1508	1611
70°	1322	1393	1489
75°	1179	1241	1346
80°	989	1035	1130
85°	750	750	843



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.1	3.5
10°-20°	200.6	10.0
20°-30°	301.7	15.0
30°-40°	358.9	17.8
40°-50°	365.2	18.1
50°-60°	321.4	16.0
60°-70°	235.7	11.7
70°-80°	128.0	6.4
80°-90°	30.5	1.5
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°	572.4	28.4
0°-40°	931.3	46.3
0°-60°	1617.8	80.4
0°-90°	2012.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2012.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	741	741	741	741	741	
5°	738	737	738	738	739	70
15°	705	706	712	716	720	199
25°	640	644	654	665	672	295
35°	554	558	573	590	598	346
45°	451	455	472	492	501	348
55°	340	345	357	374	383	304
65°	224	228	237	247	253	222
75°	113	115	119	126	130	120
85°	24	24	24	26	27	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	740.8	740.8	740.8	740.8	740.8
2.5°	740.8	739.8	739.8	739.8	740.8
5°	737.8	736.8	737.8	737.8	738.8
7.5°	732.7	731.7	733.8	734.8	735.8
10°	725.7	725.7	728.7	730.7	732.7
12.5°	716.5	717.6	720.6	723.6	726.7
15°	705.4	706.4	711.5	715.5	719.6
17.5°	691.2	693.3	699.3	705.4	709.5
20°	676.1	679.1	686.2	694.3	699.3
22.5°	658.9	662.9	671.0	681.1	686.2
25°	639.6	643.7	653.8	664.9	672.0
27.5°	619.4	624.4	635.6	648.7	656.8
30°	598.1	603.2	616.4	630.5	638.6
32.5°	574.9	580.9	595.1	611.3	619.4
35°	553.6	557.7	572.8	590.0	598.1
37.5°	529.3	534.4	548.5	566.8	575.9
40°	503.0	508.1	524.3	542.5	552.6
42.5°	477.7	481.7	497.9	518.2	527.3
45°	451.4	455.4	471.6	491.9	501.0
47.5°	424.1	429.1	444.3	463.5	472.6
50°	396.7	400.8	416.0	434.2	443.3
52.5°	368.4	372.4	386.6	404.8	413.9
55°	340.1	345.1	357.3	374.5	382.6
57.5°	311.7	316.8	327.9	344.1	351.2
60°	283.4	287.4	298.6	312.7	319.8
62.5°	253.0	256.1	267.2	281.4	287.4
65°	223.7	227.7	236.8	246.9	253.0
67.5°	196.3	198.4	206.5	217.6	221.6
70°	168.0	170.0	177.1	186.2	189.3
72.5°	139.7	142.7	147.8	155.9	159.9
75°	113.4	115.4	119.4	125.5	129.5
77.5°	88.1	89.1	92.1	97.2	100.2
80°	63.8	64.8	66.8	70.8	72.9
82.5°	42.5	43.5	44.5	46.6	48.6
85°	24.3	24.3	24.3	26.3	27.3
87.5°	9.1	8.1	8.1	8.1	8.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)