

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: P383905

Luminaire Tested: **14ID-40-L850-CFR2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P383905
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-66)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 14ID-40-L850-CFR2
Description: 1X4 IN DEPTH TROFFER WITH 2INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

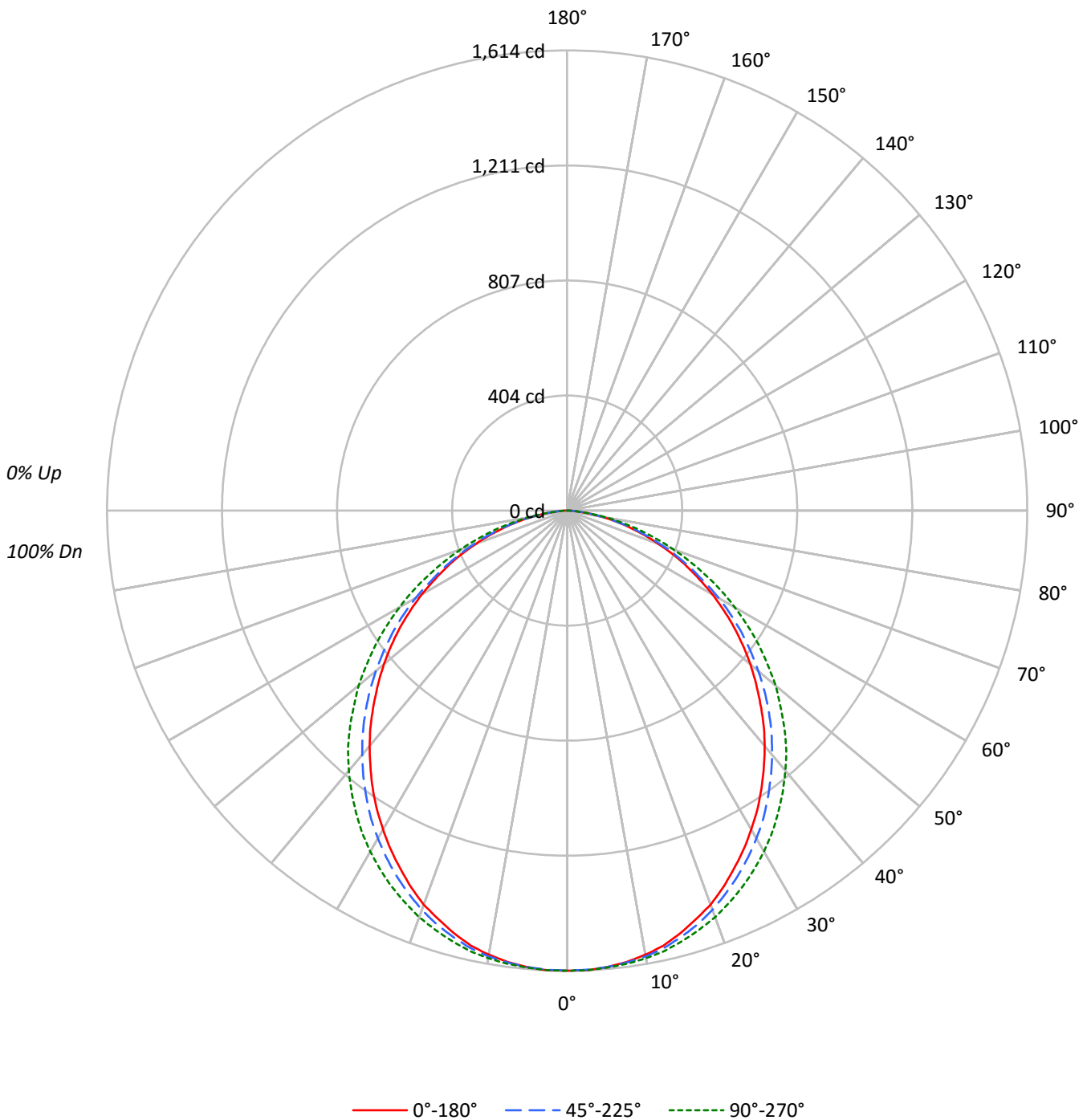
Lumens per Lamp: N/A
Luminaire Lumens: 4259.9 lumens
Efficiency: N/A
Efficacy: 127.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 33.4
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	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	79	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4342	4342	4342
5°	4342	4342	4347
10°	4322	4339	4357
15°	4276	4311	4353
20°	4212	4267	4346
25°	4113	4202	4323
30°	4013	4126	4291
35°	3906	4032	4242
40°	3786	3929	4184
45°	3647	3810	4102
50°	3512	3664	3994
55°	3355	3505	3846
60°	3171	3308	3653
65°	2949	3044	3412
70°	2670	2771	3124
75°	2330	2419	2729
80°	1886	1918	2149
85°	1121	1254	1056



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.8	3.6
10°-20°	436.6	10.2
20°-30°	653.1	15.3
30°-40°	771.7	18.1
40°-50°	778.7	18.3
50°-60°	676.2	15.9
60°-70°	484.9	11.4
70°-80°	252.6	5.9
80°-90°	53.3	1.3
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°	1242.5	29.2
0°-40°	2014.2	47.3
0°-60°	3469.1	81.4
0°-90°	4259.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4259.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1614	1614	1614	1614	1614	
5°	1607	1605	1607	1607	1609	153
15°	1535	1537	1548	1558	1562	432
25°	1385	1394	1415	1443	1456	638
35°	1189	1198	1227	1272	1291	743
45°	958	969	1001	1052	1078	740
55°	715	722	747	796	820	639
65°	463	461	478	514	536	458
75°	224	222	233	250	262	239
85°	36	41	41	36	34	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1613.7	1613.7	1613.7	1613.7	1613.7
2.5°	1613.7	1611.6	1611.6	1611.6	1613.7
5°	1607.3	1605.2	1607.3	1607.3	1609.4
7.5°	1596.6	1594.5	1598.8	1600.9	1603.0
10°	1581.7	1581.7	1588.1	1592.4	1594.5
12.5°	1562.5	1562.5	1571.0	1577.4	1581.7
15°	1534.7	1536.9	1547.5	1558.2	1562.5
17.5°	1502.7	1509.1	1521.9	1536.9	1541.1
20°	1470.7	1475.0	1489.9	1509.1	1517.7
22.5°	1430.1	1436.5	1453.6	1479.2	1487.8
25°	1385.3	1393.8	1415.2	1442.9	1455.8
27.5°	1340.5	1346.9	1372.5	1404.5	1419.5
30°	1291.4	1299.9	1327.7	1364.0	1381.0
32.5°	1242.3	1248.7	1280.7	1319.1	1338.4
35°	1188.9	1197.5	1227.4	1272.2	1291.4
37.5°	1133.4	1144.1	1174.0	1221.0	1242.3
40°	1077.9	1084.3	1118.5	1165.5	1191.1
42.5°	1020.3	1028.8	1060.9	1112.1	1137.7
45°	958.4	969.1	1001.1	1052.3	1077.9
47.5°	898.6	909.3	939.2	990.4	1013.9
50°	838.9	845.3	875.2	926.4	954.1
52.5°	777.0	783.4	811.1	860.2	885.8
55°	715.1	721.5	747.1	796.2	819.7
57.5°	651.0	655.3	680.9	725.7	749.2
60°	589.1	591.3	614.7	655.3	678.8
62.5°	523.0	525.1	542.2	589.1	610.5
65°	463.2	461.1	478.1	514.4	535.8
67.5°	401.3	401.3	416.2	448.3	465.3
70°	339.4	339.4	352.2	379.9	397.0
72.5°	281.8	281.8	292.4	313.8	326.6
75°	224.1	222.0	232.7	249.7	262.5
77.5°	170.8	170.8	175.0	190.0	198.5
80°	121.7	121.7	123.8	132.3	138.7
82.5°	76.8	76.8	76.8	81.1	83.2
85°	36.3	40.6	40.6	36.3	34.2
87.5°	17.1	17.1	14.9	14.9	14.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)