

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: P385085

Luminaire Tested: **14ID-45-L850-CNC**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385085
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-72)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 14ID-45-L850-CNC
Description: 1X4 IN DEPTH TROFFER WITH CONCAVE LENS

Light Source: -
Ballast/Driver: -

Summary

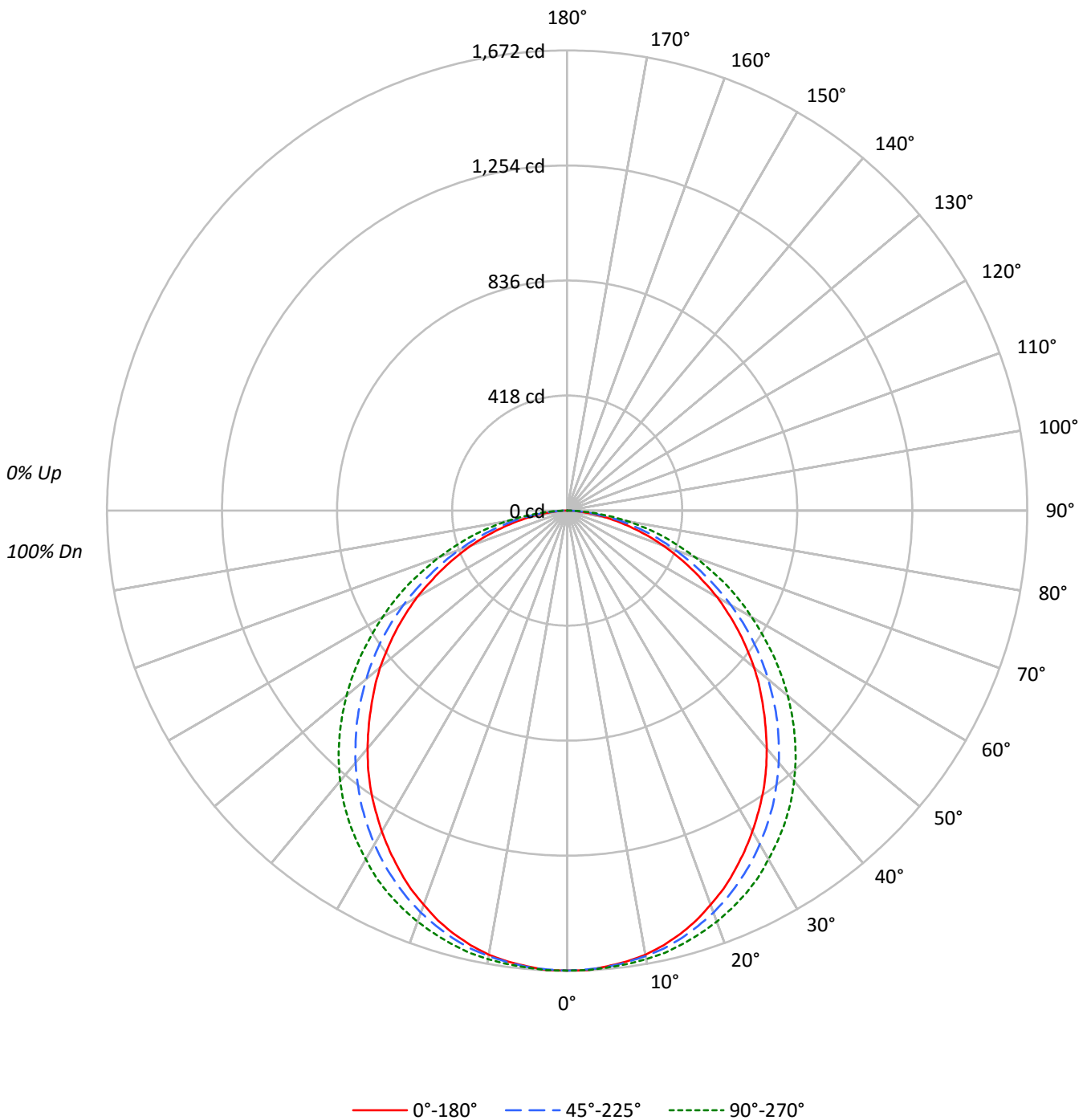
Lumens per Lamp: N/A
Luminaire Lumens: 4640.9 lumens
Efficiency: N/A
Efficacy: 120.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 38.5
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	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					100			
1	109	104	100	96	106	102	98	94	98	94	91	94	91	89	90	88	86	84					84			
2	99	91	84	78	96	89	83	77	85	80	75	82	78	74	79	75	72	70					70			
3	90	80	72	65	88	78	71	65	75	69	63	72	67	62	70	65	61	59					59			
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	50					50			
5	76	63	54	48	74	62	54	47	60	52	47	58	51	46	56	50	46	44					44			
6	70	57	48	42	68	56	48	41	54	47	41	52	46	41	51	45	40	38					38			
7	65	52	43	37	63	51	42	37	49	42	36	48	41	36	46	40	36	34					34			
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30					30			
9	57	43	35	29	55	43	35	29	42	34	29	40	34	29	39	33	29	27					27			
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4498	4498	4498
5°	4490	4496	4502
10°	4478	4491	4523
15°	4435	4481	4539
20°	4364	4451	4552
25°	4282	4407	4560
30°	4183	4350	4546
35°	4084	4283	4537
40°	3964	4202	4507
45°	3831	4107	4454
50°	3714	3989	4381
55°	3559	3866	4283
60°	3389	3704	4170
65°	3160	3488	4055
70°	2910	3279	3887
75°	2580	3042	3724
80°	2177	2721	3446
85°	1590	2096	2748



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.2	3.4
10°-20°	453.9	9.8
20°-30°	684.6	14.8
30°-40°	817.3	17.6
40°-50°	835.3	18.0
50°-60°	740.7	16.0
60°-70°	552.2	11.9
70°-80°	315.4	6.8
80°-90°	83.2	1.8
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°	1296.8	27.9
0°-40°	2114.1	45.6
0°-60°	3690.1	79.5
0°-90°	4640.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4640.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1672	1672	1672	1672	1672	
5°	1662	1662	1664	1664	1667	158
15°	1592	1597	1608	1622	1629	449
25°	1442	1454	1484	1517	1536	664
35°	1243	1260	1304	1356	1381	777
45°	1007	1028	1079	1138	1170	778
55°	758	772	824	883	913	678
65°	496	508	548	604	637	492
75°	248	260	293	337	358	265
85°	52	54	68	84	89	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1671.5	1671.5	1671.5	1671.5	1671.5
2.5°	1671.5	1669.1	1669.1	1669.1	1671.5
5°	1662.1	1662.1	1664.5	1664.5	1666.8
7.5°	1652.8	1652.8	1655.1	1657.4	1662.1
10°	1638.7	1638.7	1643.4	1650.4	1655.1
12.5°	1617.6	1620.0	1629.4	1638.7	1645.7
15°	1591.9	1596.6	1608.3	1622.3	1629.4
17.5°	1561.5	1566.1	1582.5	1601.3	1610.6
20°	1524.0	1533.4	1554.4	1577.8	1589.6
22.5°	1486.5	1495.9	1521.7	1549.8	1563.8
25°	1442.1	1453.8	1484.2	1517.0	1535.7
27.5°	1395.2	1409.3	1444.4	1481.9	1502.9
30°	1346.1	1362.5	1399.9	1442.1	1463.1
32.5°	1294.6	1311.0	1353.1	1399.9	1423.3
35°	1243.1	1259.5	1303.9	1355.5	1381.2
37.5°	1186.9	1203.3	1250.1	1306.3	1334.4
40°	1128.4	1147.1	1196.3	1252.4	1282.9
42.5°	1067.5	1088.6	1137.7	1198.6	1229.0
45°	1006.6	1027.7	1079.2	1137.7	1170.5
47.5°	948.1	964.5	1016.0	1076.9	1109.6
50°	887.2	901.3	952.8	1013.7	1046.4
52.5°	821.7	840.4	889.6	950.5	980.9
55°	758.5	772.5	824.0	882.6	913.0
57.5°	692.9	707.0	756.2	814.7	842.8
60°	629.7	643.8	688.3	746.8	774.9
62.5°	559.5	573.6	618.0	678.9	707.0
65°	496.3	508.0	547.8	604.0	636.8
67.5°	433.1	444.8	482.3	536.1	561.8
70°	369.9	379.2	416.7	465.9	494.0
72.5°	309.0	318.4	355.8	400.3	423.7
75°	248.1	259.9	292.6	337.1	358.2
77.5°	192.0	203.7	231.8	271.6	290.3
80°	140.5	149.8	175.6	206.0	222.4
82.5°	93.6	100.7	119.4	145.1	156.8
85°	51.5	53.8	67.9	84.3	89.0
87.5°	21.1	21.1	25.8	28.1	30.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)