

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: P383740

Luminaire Tested: **14ID-45-L840-CFR1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P383740
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-45-L840-CFR1
Description: 1X4 IN DEPTH TROFFER WITH 1INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

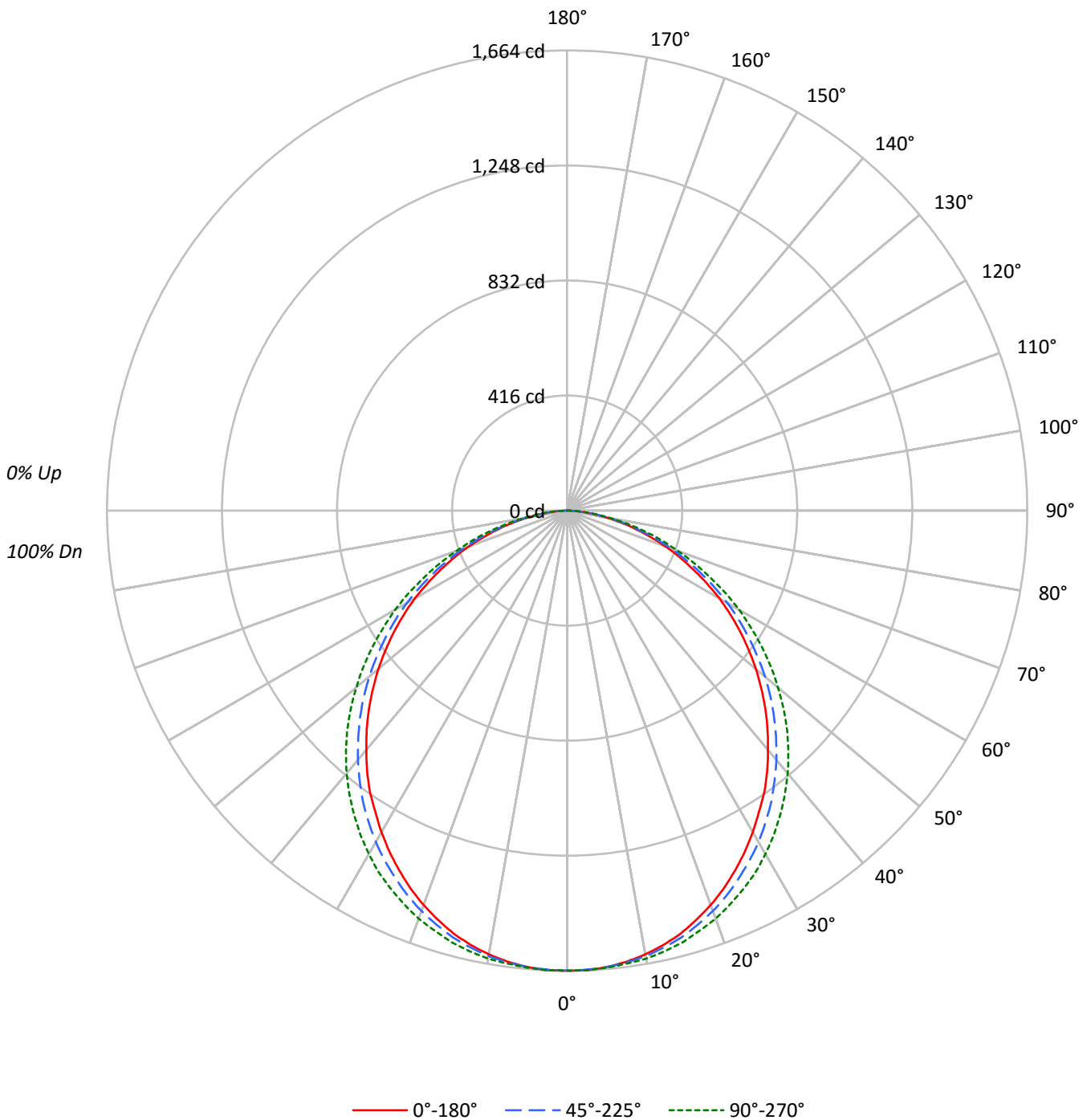
Lumens per Lamp: N/A
Luminaire Lumens: 4518.0 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.35
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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



TEST NUMBER: P383740
CATALOG NUMBER: 14ID-45-L840-CFR1

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	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°	4477	4477	4477
5°	4475	4475	4481
10°	4453	4471	4496
15°	4413	4451	4501
20°	4347	4412	4497
25°	4265	4359	4480
30°	4173	4300	4456
35°	4084	4226	4412
40°	3968	4135	4359
45°	3857	4030	4281
50°	3730	3911	4167
55°	3582	3764	4031
60°	3425	3608	3865
65°	3198	3386	3618
70°	2969	3129	3344
75°	2646	2789	3025
80°	2219	2325	2535
85°	1683	1683	1896



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CATALOG NUMBER: 14ID-45-L840-CFR1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.5	3.5
10°-20°	450.5	10.0
20°-30°	677.4	15.0
30°-40°	805.8	17.8
40°-50°	820.0	18.1
50°-60°	721.6	16.0
60°-70°	529.3	11.7
70°-80°	287.3	6.4
80°-90°	68.6	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°	1285.4	28.4
0°-40°	2091.2	46.3
0°-60°	3632.8	80.4
0°-90°	4518.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4518.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1664	1664	1664	1664	1664	
5°	1657	1654	1657	1657	1659	157
15°	1584	1586	1598	1607	1616	446
25°	1436	1445	1468	1493	1509	662
35°	1243	1252	1286	1325	1343	776
45°	1014	1023	1059	1104	1125	781
55°	764	775	802	841	859	683
65°	502	511	532	554	568	499
75°	254	259	268	282	291	270
85°	54	54	54	59	61	66
90°	0	0	0	0	0	



TEST NUMBER: P383740

CATALOG NUMBER: 14ID-45-L840-CFR1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1663.6	1663.6	1663.6	1663.6	1663.6
2.5°	1663.6	1661.3	1661.3	1661.3	1663.6
5°	1656.7	1654.5	1656.7	1656.7	1659.0
7.5°	1645.4	1643.1	1647.7	1649.9	1652.2
10°	1629.5	1629.5	1636.3	1640.8	1645.4
12.5°	1609.0	1611.3	1618.1	1624.9	1631.7
15°	1584.0	1586.3	1597.7	1606.7	1615.8
17.5°	1552.2	1556.8	1570.4	1584.0	1593.1
20°	1518.1	1524.9	1540.8	1559.0	1570.4
22.5°	1479.5	1488.6	1506.8	1529.5	1540.8
25°	1436.3	1445.4	1468.1	1493.1	1509.0
27.5°	1390.8	1402.2	1427.2	1456.8	1474.9
30°	1343.1	1354.5	1384.0	1415.8	1434.0
32.5°	1290.9	1304.5	1336.3	1372.7	1390.8
35°	1243.1	1252.2	1286.3	1324.9	1343.1
37.5°	1188.6	1199.9	1231.8	1272.7	1293.1
40°	1129.5	1140.9	1177.2	1218.1	1240.9
42.5°	1072.7	1081.8	1118.1	1163.6	1184.0
45°	1013.6	1022.7	1059.0	1104.5	1125.0
47.5°	952.2	963.6	997.7	1040.9	1061.3
50°	890.9	900.0	934.1	975.0	995.4
52.5°	827.2	836.3	868.1	909.1	929.5
55°	763.6	775.0	802.2	840.9	859.1
57.5°	700.0	711.3	736.3	772.7	788.6
60°	636.3	645.4	670.4	702.2	718.2
62.5°	568.2	575.0	600.0	631.8	645.4
65°	502.3	511.3	531.8	554.5	568.2
67.5°	440.9	445.4	463.6	488.6	497.7
70°	377.3	381.8	397.7	418.2	425.0
72.5°	313.6	320.4	331.8	350.0	359.1
75°	254.5	259.1	268.2	281.8	290.9
77.5°	197.7	200.0	206.8	218.2	225.0
80°	143.2	145.4	150.0	159.1	163.6
82.5°	95.5	97.7	100.0	104.5	109.1
85°	54.5	54.5	54.5	59.1	61.4
87.5°	20.5	18.2	18.2	18.2	18.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)