

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: P383904

Luminaire Tested: **14ID-40-L840-CFR2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P383904
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-L840-CFR2
Description: 1X4 IN DEPTH TROFFER WITH 2INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

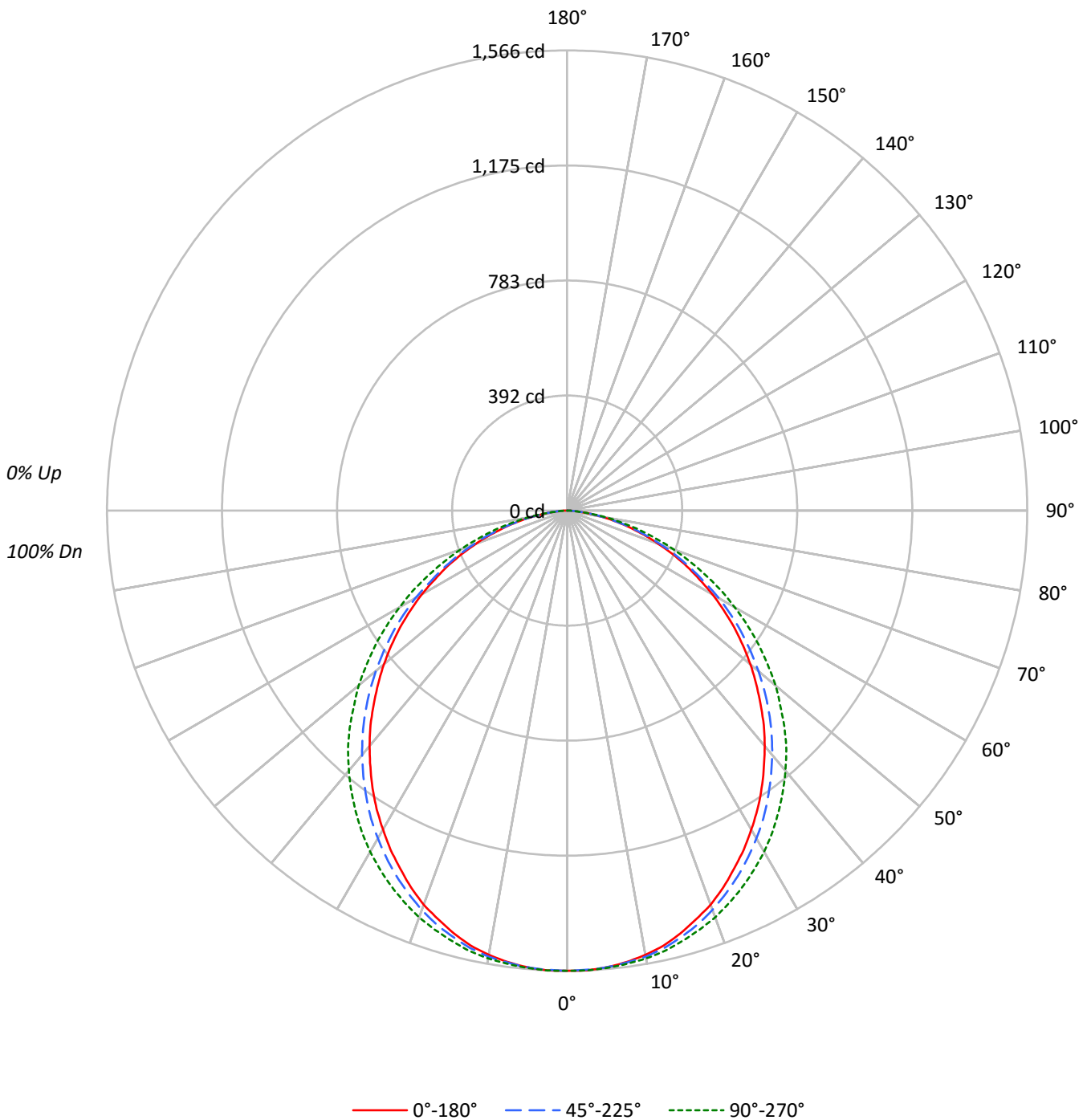
Lumens per Lamp: N/A
Luminaire Lumens: 4134.6 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P383904
CATALOG NUMBER: 14ID-40-L840-CFR2

Luminous Intensity Polar Plot





TEST NUMBER: P383904

CATALOG NUMBER: 14ID-40-L840-CFR2

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°	4215	4215	4215
5°	4214	4214	4220
10°	4195	4212	4229
15°	4150	4184	4225
20°	4088	4141	4218
25°	3992	4078	4195
30°	3895	4004	4165
35°	3791	3914	4118
40°	3675	3814	4061
45°	3540	3698	3981
50°	3409	3556	3877
55°	3256	3402	3733
60°	3077	3211	3546
65°	2863	2955	3311
70°	2592	2689	3032
75°	2261	2348	2649
80°	1830	1863	2087
85°	1087	1216	1022



TEST NUMBER: P383904

CATALOG NUMBER: 14ID-40-L840-CFR2

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.3	3.6
10°-20°	423.8	10.2
20°-30°	633.9	15.3
30°-40°	749.0	18.1
40°-50°	755.8	18.3
50°-60°	656.3	15.9
60°-70°	470.6	11.4
70°-80°	245.2	5.9
80°-90°	51.8	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°	1206.0	29.2
0°-40°	1955.0	47.3
0°-60°	3367.1	81.4
0°-90°	4134.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4134.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1566	1566	1566	1566	1566	
5°	1560	1558	1560	1560	1562	148
15°	1490	1492	1502	1512	1516	420
25°	1345	1353	1374	1400	1413	620
35°	1154	1162	1191	1235	1253	721
45°	930	941	972	1021	1046	718
55°	694	700	725	773	796	620
65°	450	448	464	499	520	444
75°	218	216	226	242	255	232
85°	35	39	39	35	33	50
90°	0	0	0	0	0	



TEST NUMBER: P383904

CATALOG NUMBER: 14ID-40-L840-CFR2

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1566.2	1566.2	1566.2	1566.2	1566.2
2.5°	1566.2	1564.2	1564.2	1564.2	1566.2
5°	1560.0	1558.0	1560.0	1560.0	1562.1
7.5°	1549.7	1547.6	1551.7	1553.8	1555.9
10°	1535.2	1535.2	1541.4	1545.5	1547.6
12.5°	1516.5	1516.5	1524.8	1531.0	1535.2
15°	1489.6	1491.7	1502.0	1512.4	1516.5
17.5°	1458.5	1464.7	1477.2	1491.7	1495.8
20°	1427.4	1431.6	1446.1	1464.7	1473.0
22.5°	1388.1	1394.3	1410.9	1435.7	1444.0
25°	1344.6	1352.9	1373.6	1400.5	1412.9
27.5°	1301.1	1307.3	1332.1	1363.2	1377.7
30°	1253.4	1261.7	1288.6	1323.8	1340.4
32.5°	1205.8	1212.0	1243.0	1280.3	1299.0
35°	1154.0	1162.3	1191.3	1234.8	1253.4
37.5°	1100.1	1110.5	1139.5	1185.0	1205.8
40°	1046.2	1052.4	1085.6	1131.2	1156.0
42.5°	990.3	998.6	1029.7	1079.4	1104.2
45°	930.2	940.6	971.6	1021.4	1046.2
47.5°	872.2	882.6	911.6	961.3	984.1
50°	814.2	820.4	849.4	899.1	926.1
52.5°	754.1	760.3	787.3	834.9	859.8
55°	694.0	700.3	725.1	772.8	795.6
57.5°	631.9	636.0	660.9	704.4	727.2
60°	571.8	573.9	596.7	636.0	658.8
62.5°	507.6	509.6	526.2	571.8	592.5
65°	449.6	447.5	464.1	499.3	520.0
67.5°	389.5	389.5	404.0	435.1	451.6
70°	329.4	329.4	341.8	368.8	385.3
72.5°	273.5	273.5	283.8	304.5	317.0
75°	217.5	215.5	225.8	242.4	254.8
77.5°	165.7	165.7	169.9	184.4	192.7
80°	118.1	118.1	120.2	128.4	134.7
82.5°	74.6	74.6	74.6	78.7	80.8
85°	35.2	39.4	39.4	35.2	33.1
87.5°	16.6	16.6	14.5	14.5	14.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)