

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: P385354

Luminaire Tested: **24ID-40-L830-CNV**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385354
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-73)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24ID-40-L830-CNV
Description: 2X4 IN DEPTH TROFFER WITH CONVEX LENS

Light Source: -
Ballast/Driver: -

Summary

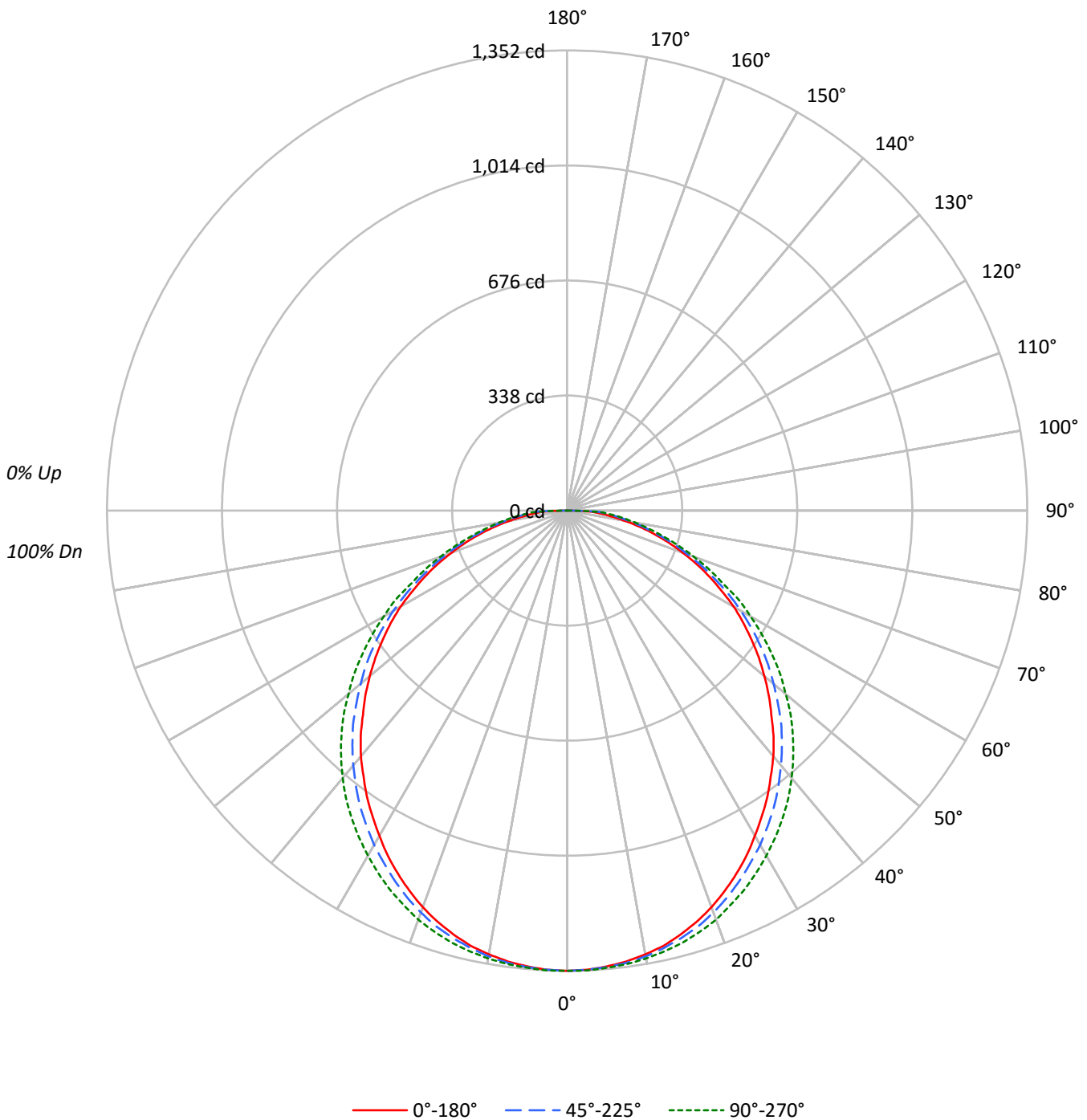
Lumens per Lamp: N/A
Luminaire Lumens: 3922.5 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 35.2
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: P385354
CATALOG NUMBER: 24ID-40-L830-CNV

Luminous Intensity Polar Plot





TEST NUMBER: P385354

CATALOG NUMBER: 24ID-40-L830-CNV

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	108	103	99	94	105	101	97	93	96	93	90	93	90	87	89	87	85	82
2	98	90	82	77	95	88	81	76	84	79	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1820	1820	1820
5°	1809	1804	1808
10°	1795	1789	1799
15°	1776	1768	1790
20°	1749	1743	1777
25°	1714	1710	1758
30°	1674	1676	1736
35°	1637	1641	1713
40°	1599	1598	1684
45°	1550	1555	1648
50°	1509	1499	1596
55°	1463	1444	1539
60°	1418	1376	1463
65°	1353	1288	1361
70°	1274	1195	1267
75°	1184	1093	1157
80°	1061	989	1062
85°	1003	940	1016



TEST NUMBER: P385354

CATALOG NUMBER: 24ID-40-L830-CNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.0	3.3
10°-20°	366.7	9.3
20°-30°	553.4	14.1
30°-40°	664.2	16.9
40°-50°	687.4	17.5
50°-60°	622.8	15.9
60°-70°	479.8	12.2
70°-80°	296.9	7.6
80°-90°	123.3	3.1
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°	1048.1	26.7
0°-40°	1712.3	43.7
0°-60°	3022.5	77.1
0°-90°	3922.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3922.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1352	1352	1352	1352	1352	
5°	1344	1344	1346	1346	1348	128
15°	1289	1291	1299	1308	1314	364
25°	1177	1181	1199	1220	1230	542
35°	1026	1034	1061	1089	1104	641
45°	849	861	889	922	938	656
55°	661	671	694	724	734	592
65°	463	467	481	502	504	458
75°	263	269	280	292	292	279
85°	96	106	122	130	128	104
90°	0	0	0	0	0	



TEST NUMBER: P385354

CATALOG NUMBER: 24ID-40-L830-CNV

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1352.4	1352.4	1352.4	1352.4	1352.4
2.5°	1350.4	1350.4	1350.4	1350.4	1352.4
5°	1344.2	1344.2	1346.3	1346.3	1348.3
7.5°	1336.1	1336.1	1340.2	1340.2	1344.2
10°	1323.8	1325.9	1330.0	1332.0	1336.1
12.5°	1309.6	1309.6	1315.7	1321.8	1325.9
15°	1289.2	1291.2	1299.4	1307.5	1313.6
17.5°	1266.7	1268.8	1281.0	1289.2	1297.3
20°	1240.2	1242.2	1256.5	1268.8	1279.0
22.5°	1209.6	1213.7	1230.0	1246.3	1254.5
25°	1177.0	1181.1	1199.4	1219.8	1230.0
27.5°	1142.3	1148.4	1166.8	1189.2	1201.5
30°	1103.5	1111.7	1134.1	1158.6	1170.9
32.5°	1064.8	1072.9	1097.4	1126.0	1138.2
35°	1026.0	1034.2	1060.7	1089.3	1103.5
37.5°	983.2	991.4	1019.9	1050.5	1066.8
40°	942.4	950.6	977.1	1011.7	1026.0
42.5°	897.5	905.7	934.2	966.9	983.2
45°	848.6	860.8	889.4	922.0	938.3
47.5°	803.7	813.9	840.4	875.1	891.4
50°	756.8	767.0	791.4	826.1	838.4
52.5°	709.9	720.1	744.5	777.2	789.4
55°	660.9	671.1	693.5	724.1	734.3
57.5°	614.0	622.1	642.5	671.1	679.3
60°	565.0	573.2	589.5	616.0	622.1
62.5°	512.0	518.1	536.5	560.9	569.1
65°	463.0	467.1	481.4	501.8	503.8
67.5°	412.0	416.1	430.4	444.7	450.8
70°	361.0	367.2	377.4	391.6	395.7
72.5°	312.1	318.2	328.4	340.6	342.7
75°	263.1	269.3	279.5	291.7	291.7
77.5°	216.2	222.3	234.6	244.8	244.8
80°	169.3	179.5	191.7	201.9	201.9
82.5°	130.5	138.7	155.0	163.2	163.2
85°	95.9	106.1	122.4	130.5	128.5
87.5°	69.4	79.6	93.8	100.0	97.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)