

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: P385180

Luminaire Tested: **24ID-30-L840-CNC**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385180
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: 24ID-30-L840-CNC
Description: 2X4 IN DEPTH TROFFER WITH CONCAVE LENS

Light Source: -
Ballast/Driver: -

Summary

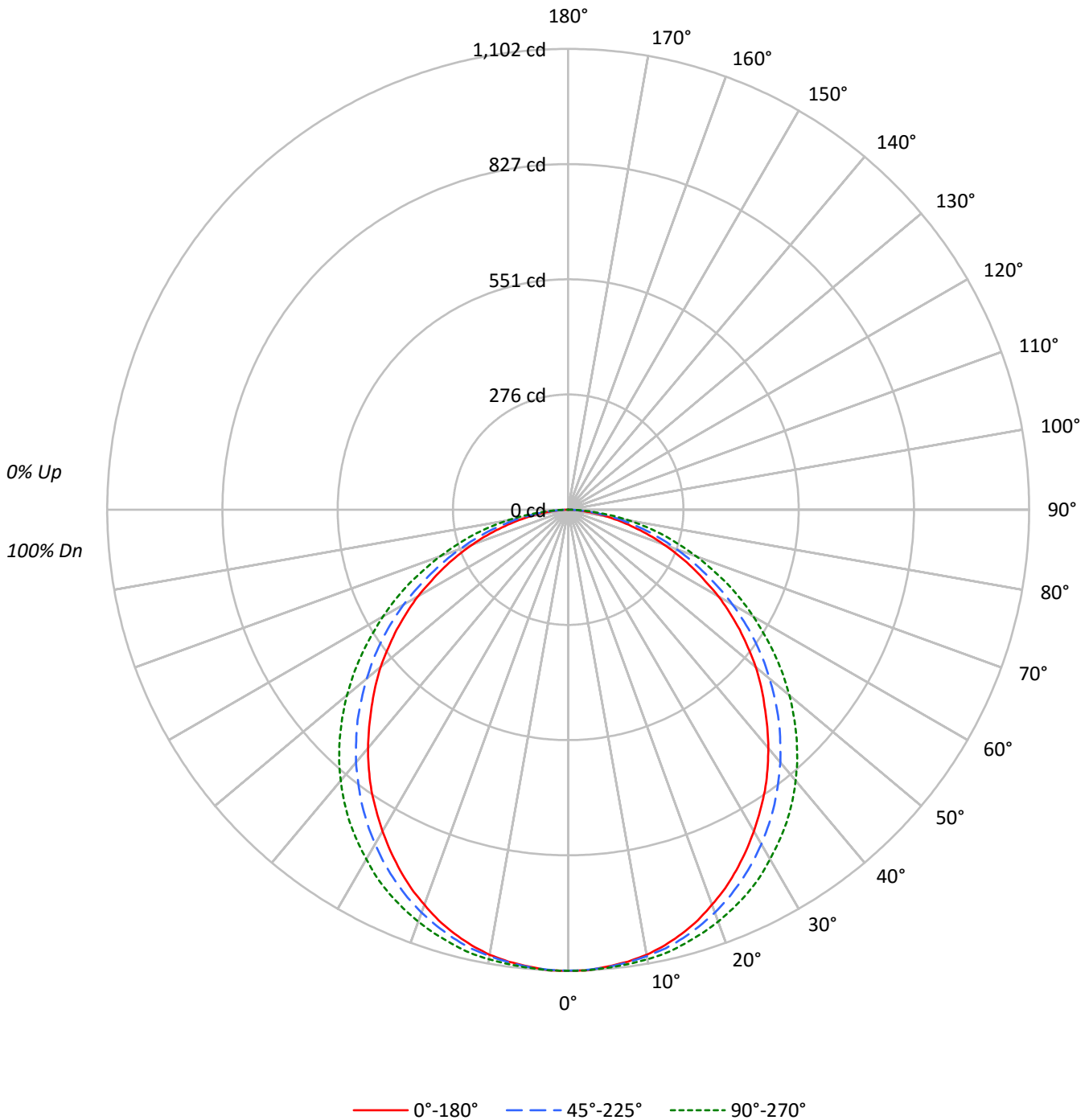
Lumens per Lamp: N/A
Luminaire Lumens: 3061.0 lumens
Efficiency: N/A
Efficacy: 119.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.36
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.6
Input Voltage (V): NR
Input Current (Ain): 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	104	100	96	106	102	98	94	98	94	91	94	91	89	90	88	86	84
2	99	91	84	78	96	89	83	77	85	80	75	82	78	74	79	75	72	70
3	90	80	72	65	88	78	71	65	75	69	63	72	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	50
5	76	63	54	48	74	62	54	47	60	52	47	58	51	46	56	50	46	44
6	70	57	48	42	68	56	48	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	42	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30
9	57	43	35	29	55	43	35	29	42	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1483	1483	1483
5°	1481	1483	1485
10°	1477	1481	1492
15°	1463	1478	1497
20°	1439	1468	1501
25°	1412	1453	1504
30°	1379	1435	1499
35°	1347	1413	1496
40°	1307	1386	1486
45°	1263	1354	1469
50°	1225	1315	1445
55°	1174	1275	1413
60°	1118	1222	1375
65°	1042	1150	1337
70°	960	1081	1282
75°	851	1003	1228
80°	717	897	1137
85°	525	692	906



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.4	3.4
10°-20°	299.4	9.8
20°-30°	451.5	14.8
30°-40°	539.1	17.6
40°-50°	551.0	18.0
50°-60°	488.5	16.0
60°-70°	364.2	11.9
70°-80°	208.0	6.8
80°-90°	54.9	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°	855.3	27.9
0°-40°	1394.4	45.6
0°-60°	2433.9	79.5
0°-90°	3061.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3061.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1102	1102	1102	1102	1102	
5°	1096	1096	1098	1098	1099	104
15°	1050	1053	1061	1070	1075	296
25°	951	959	979	1001	1013	438
35°	820	831	860	894	911	512
45°	664	678	712	750	772	513
55°	500	510	544	582	602	447
65°	327	335	361	398	420	324
75°	164	171	193	222	236	175
85°	34	36	45	56	59	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1102.5	1102.5	1102.5	1102.5	1102.5
2.5°	1102.5	1100.9	1100.9	1100.9	1102.5
5°	1096.3	1096.3	1097.8	1097.8	1099.4
7.5°	1090.1	1090.1	1091.7	1093.2	1096.3
10°	1080.8	1080.8	1083.9	1088.6	1091.7
12.5°	1067.0	1068.5	1074.7	1080.8	1085.5
15°	1050.0	1053.1	1060.8	1070.0	1074.7
17.5°	1029.9	1033.0	1043.8	1056.1	1062.3
20°	1005.2	1011.4	1025.3	1040.7	1048.4
22.5°	980.5	986.7	1003.6	1022.2	1031.4
25°	951.1	958.9	978.9	1000.6	1012.9
27.5°	920.3	929.5	952.7	977.4	991.3
30°	887.8	898.6	923.4	951.1	965.0
32.5°	853.9	864.7	892.5	923.4	938.8
35°	819.9	830.7	860.0	894.0	911.0
37.5°	782.8	793.7	824.5	861.6	880.1
40°	744.2	756.6	789.0	826.1	846.1
42.5°	704.1	718.0	750.4	790.6	810.6
45°	663.9	677.8	711.8	750.4	772.0
47.5°	625.3	636.2	670.1	710.3	731.9
50°	585.2	594.5	628.4	668.6	690.2
52.5°	542.0	554.3	586.7	626.9	647.0
55°	500.3	509.5	543.5	582.1	602.2
57.5°	457.0	466.3	498.7	537.3	555.9
60°	415.4	424.6	454.0	492.6	511.1
62.5°	369.0	378.3	407.6	447.8	466.3
65°	327.3	335.1	361.3	398.4	420.0
67.5°	285.7	293.4	318.1	353.6	370.6
70°	244.0	250.1	274.8	307.3	325.8
72.5°	203.8	210.0	234.7	264.0	279.5
75°	163.7	171.4	193.0	222.3	236.2
77.5°	126.6	134.3	152.9	179.1	191.5
80°	92.6	98.8	115.8	135.9	146.7
82.5°	61.8	66.4	78.7	95.7	103.5
85°	34.0	35.5	44.8	55.6	58.7
87.5°	13.9	13.9	17.0	18.5	20.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)