

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: P220273

Luminaire Tested: **Z3-WG-2L40-LD5-UNV-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220273
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35866)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WG-2L40-LD5-UNV-24
Description: CLASS Z3 2X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & RECTANGULAR PERF INLAY
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

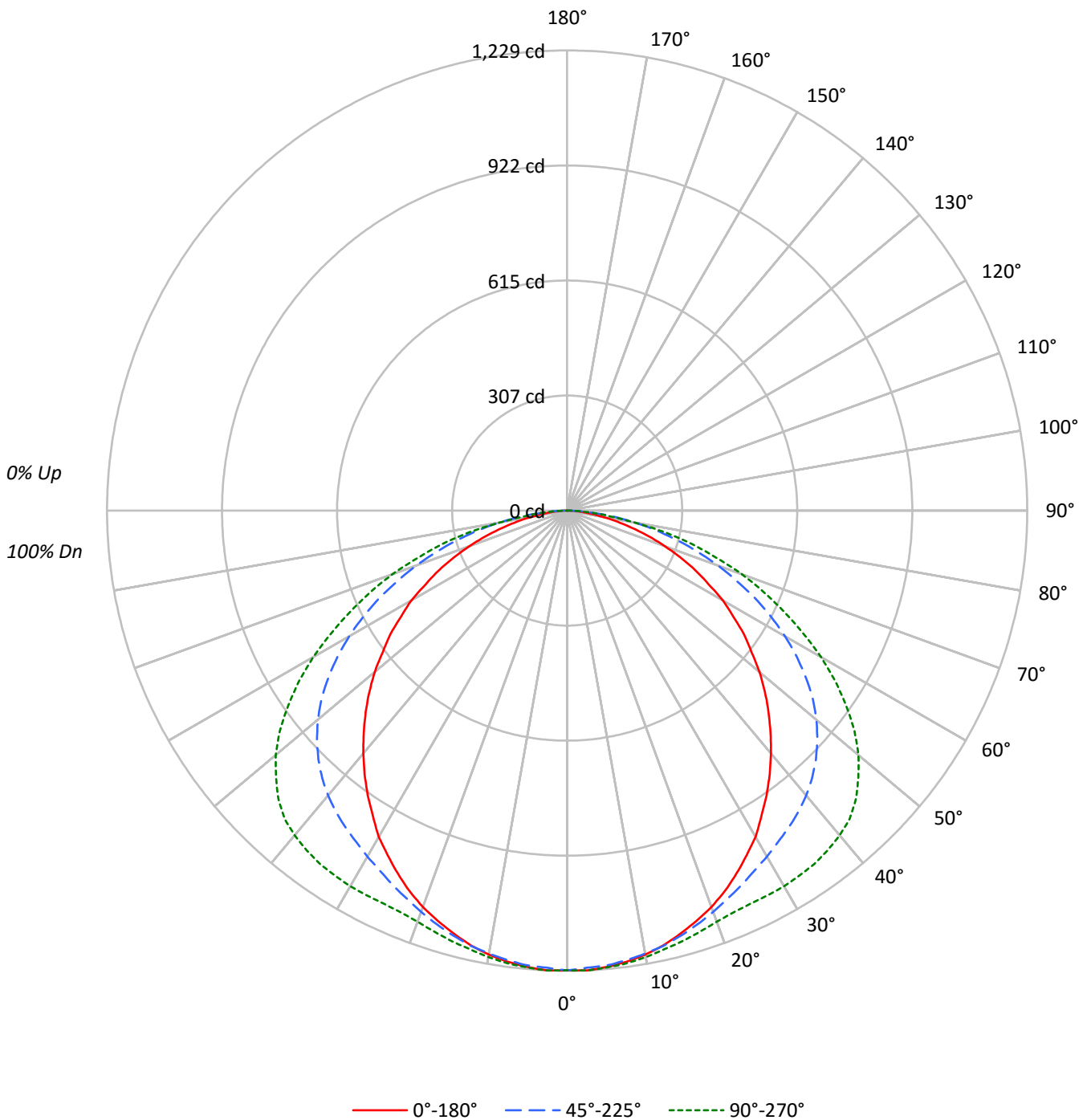
Lumens per Lamp: N/A
Luminaire Lumens: 3906.1 lumens
Efficiency: N/A
Efficacy: 128.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.44 / 1.48
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 30.5
Input Voltage (V): 120
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	108	103	99	95	106	101	97	93	97	94	90	93	90	88	89	87	85	83
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	62	74	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	68	59	52	65	58	52	63	56	51	60	55	50	48
5	75	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	50	43	38	49	43	38	36
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	44	38	33	31
8	59	45	36	30	57	44	36	30	43	36	30	42	35	30	41	34	30	28
9	55	41	33	27	54	41	33	27	40	32	27	38	32	27	37	31	27	25
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1652	1652	1652
5°	1653	1647	1655
10°	1645	1641	1655
15°	1629	1637	1658
20°	1613	1633	1673
25°	1588	1638	1720
30°	1563	1658	1800
35°	1525	1696	1892
40°	1487	1745	1989
45°	1448	1788	2075
50°	1404	1819	2126
55°	1352	1827	2136
60°	1294	1809	2107
65°	1204	1760	2034
70°	1090	1685	1952
75°	930	1570	1794
80°	752	1417	1385
85°	514	1005	983



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.1	3.0
10°-20°	332.8	8.5
20°-30°	512.5	13.1
30°-40°	648.9	16.6
40°-50°	717.3	18.4
50°-60°	679.5	17.4
60°-70°	526.3	13.5
70°-80°	299.9	7.7
80°-90°	72.7	1.9
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°	961.5	24.6
0°-40°	1610.3	41.2
0°-60°	3007.1	77.0
0°-90°	3906.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3906.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1228	1228	1228	1228	1228	
5°	1224	1222	1220	1224	1225	116
15°	1170	1172	1175	1186	1190	330
25°	1070	1078	1103	1143	1158	493
35°	928	952	1032	1120	1152	581
45°	761	809	940	1050	1091	587
55°	576	646	779	879	910	514
65°	378	445	553	624	639	373
75°	179	236	302	335	345	193
85°	33	61	65	64	64	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1227.8	1227.8	1227.8	1227.8	1227.8
2.5°	1229.2	1226.4	1222.2	1227.8	1229.2
5°	1223.6	1222.2	1219.5	1223.6	1225.0
7.5°	1215.3	1213.9	1211.1	1218.1	1219.5
10°	1204.2	1204.2	1201.4	1208.4	1211.1
12.5°	1189.0	1190.4	1190.4	1197.3	1200.1
15°	1169.6	1172.3	1175.1	1186.2	1190.4
17.5°	1148.8	1152.9	1158.5	1172.3	1179.3
20°	1126.6	1129.4	1140.5	1161.3	1168.2
22.5°	1100.3	1104.4	1121.1	1150.2	1161.3
25°	1069.8	1078.1	1103.1	1143.2	1158.5
27.5°	1037.9	1047.6	1083.7	1136.3	1158.5
30°	1006.1	1017.1	1067.0	1132.2	1158.5
32.5°	965.9	985.3	1049.0	1128.0	1155.7
35°	928.5	952.0	1032.4	1119.7	1151.6
37.5°	888.3	917.4	1014.4	1108.6	1143.2
40°	846.7	882.7	993.6	1094.7	1132.2
42.5°	803.7	846.7	968.6	1076.7	1116.9
45°	760.8	809.3	939.5	1050.4	1090.6
47.5°	716.4	770.5	906.3	1018.5	1054.6
50°	670.7	730.3	868.9	979.7	1015.8
52.5°	620.8	690.1	827.3	932.6	967.3
55°	576.5	645.8	778.8	878.6	910.4
57.5°	525.2	602.8	727.5	823.1	849.5
60°	480.9	548.8	672.1	759.4	782.9
62.5°	425.4	503.0	613.9	692.9	710.9
65°	378.3	444.8	552.9	623.6	638.8
67.5°	327.0	392.2	489.2	551.5	568.2
70°	277.2	336.7	428.2	478.1	496.1
72.5°	228.6	285.5	364.5	407.4	415.7
75°	178.8	235.6	302.1	335.4	345.1
77.5°	137.2	184.3	242.5	268.8	267.5
80°	97.0	138.6	182.9	187.1	178.8
82.5°	62.4	98.4	123.3	113.6	113.6
85°	33.3	61.0	65.1	63.7	63.7
87.5°	12.5	22.2	22.2	22.2	22.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)