

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: P220138

Luminaire Tested: **Z3-WL-3L40-LD5-UNV-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220138
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35857)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WL-3L40-LD5-UNV-22
Description: CLASS Z3 2X2 RECESSED LED LUMIANIRE
WITH A FROSTED PRISMATIC ROUND LENS
Light Source: (84) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3101.4 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.23 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

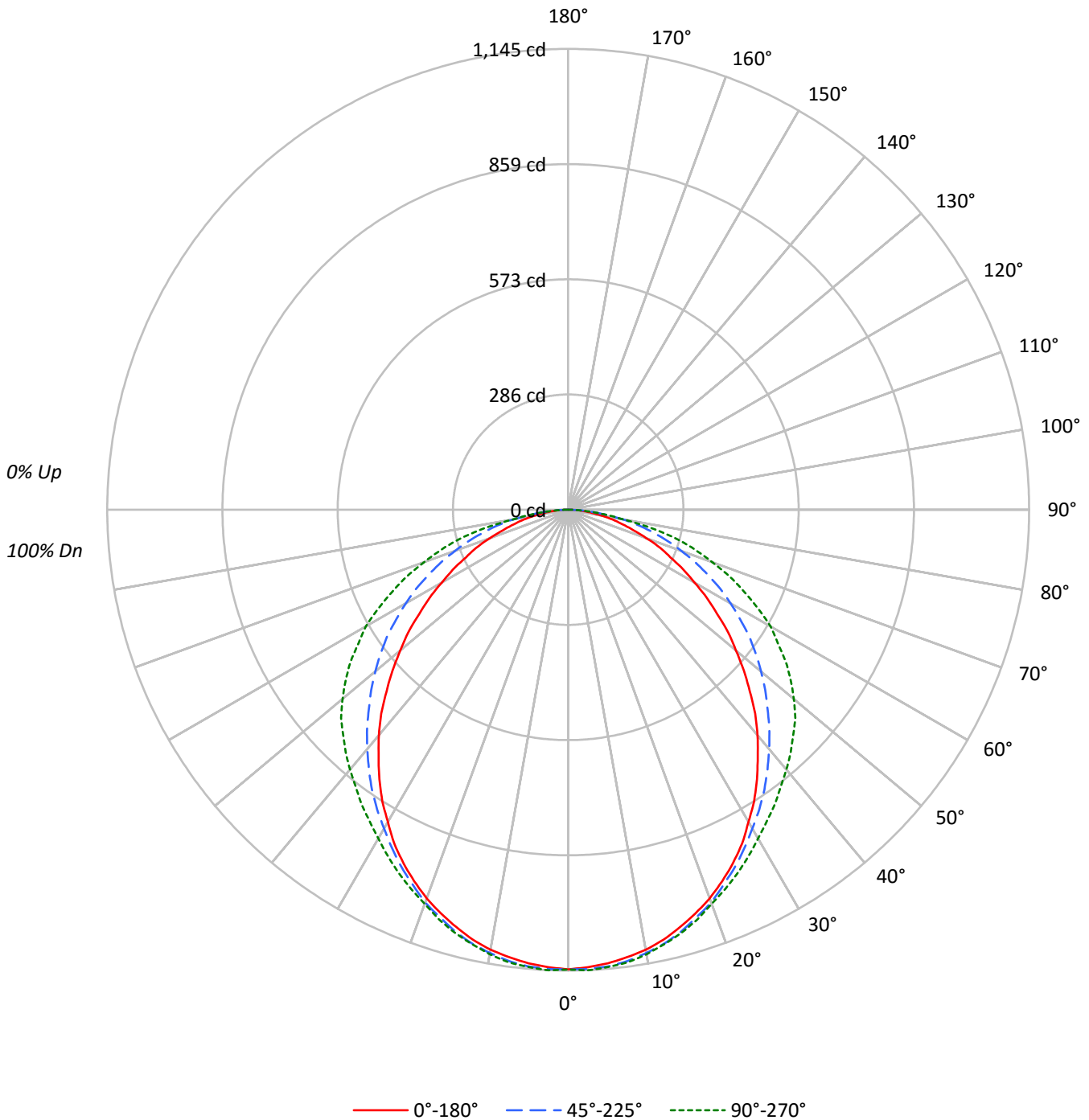
Input Watts (W): 25.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84					84			
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70					70			
3	90	79	71	65	88	78	70	64	75	68	63	72	66	62	69	65	61	59					59			
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50					50			
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43					43			
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38					38			
7	65	51	43	36	63	51	42	36	49	42	36	48	41	36	46	40	36	34					34			
8	60	47	38	33	59	46	38	32	45	38	32	44	37	32	42	36	32	30					30			
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27					27			
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3074	3074	3074
5°	3055	3077	3081
10°	3034	3056	3064
15°	2992	3023	3031
20°	2943	2975	2984
25°	2877	2910	2957
30°	2783	2842	2931
35°	2686	2791	2937
40°	2571	2727	2962
45°	2428	2664	3009
50°	2278	2617	3064
55°	2120	2575	3097
60°	1952	2509	3125
65°	1783	2431	3069
70°	1627	2353	2991
75°	1456	2266	2895
80°	1282	2120	2170
85°	1130	1670	1621



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.9	3.5
10°-20°	305.1	9.8
20°-30°	452.0	14.6
30°-40°	532.8	17.2
40°-50°	546.3	17.6
50°-60°	493.9	15.9
60°-70°	379.8	12.2
70°-80°	225.1	7.3
80°-90°	58.5	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°	865.0	27.9
0°-40°	1397.7	45.1
0°-60°	2438.0	78.6
0°-90°	3101.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3101.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1142	1142	1142	1142	1142	
5°	1131	1134	1139	1141	1141	107
15°	1074	1077	1085	1088	1088	303
25°	969	972	980	991	996	445
35°	818	822	850	880	894	511
45°	638	651	700	764	791	493
55°	452	484	549	625	660	406
65°	280	315	382	455	482	281
75°	140	167	218	264	278	150
85°	37	44	54	57	52	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1142.2	1142.2	1142.2	1142.2	1142.2
2.5°	1137.5	1139.0	1142.2	1145.4	1145.4
5°	1131.1	1134.3	1139.0	1140.6	1140.6
7.5°	1121.5	1124.7	1131.1	1132.7	1134.3
10°	1110.4	1112.0	1118.4	1121.5	1121.5
12.5°	1094.5	1097.7	1104.0	1107.2	1105.6
15°	1073.8	1077.0	1085.0	1088.1	1088.1
17.5°	1051.5	1054.7	1061.1	1065.9	1067.5
20°	1027.7	1029.3	1038.8	1042.0	1042.0
22.5°	999.1	1003.8	1008.6	1018.1	1019.7
25°	968.8	972.0	980.0	991.1	995.9
27.5°	935.4	937.0	948.1	965.6	970.4
30°	895.6	902.0	914.7	937.0	943.4
32.5°	859.1	863.8	882.9	908.4	917.9
35°	817.7	822.5	849.5	879.7	894.1
37.5°	773.2	779.5	812.9	849.5	867.0
40°	731.8	739.7	776.3	822.5	843.1
42.5°	687.2	695.2	739.7	792.2	817.7
45°	637.9	650.7	700.0	763.6	790.6
47.5°	591.8	607.7	663.4	733.4	765.2
50°	544.1	566.3	625.2	701.6	731.8
52.5°	501.1	521.8	587.0	665.0	696.8
55°	451.8	483.6	548.8	625.2	660.2
57.5°	408.8	437.5	505.9	587.0	617.2
60°	362.7	394.5	466.1	544.1	580.7
62.5°	322.9	353.2	426.3	501.1	531.3
65°	280.0	315.0	381.8	455.0	482.0
67.5°	248.2	272.0	342.0	410.4	434.3
70°	206.8	235.4	299.1	361.1	380.2
72.5°	170.2	200.4	259.3	313.4	330.9
75°	140.0	167.0	217.9	264.1	278.4
77.5°	112.9	135.2	179.8	211.6	214.8
80°	82.7	101.8	136.8	144.8	140.0
82.5°	58.9	71.6	90.7	95.5	90.7
85°	36.6	44.5	54.1	57.3	52.5
87.5°	17.5	17.5	22.3	22.3	19.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)