

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: P256944

Luminaire Tested: **HGL-S-BF-30L840-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256944
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1708-204-8)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: HGL-S-BF-30L840-UNV-4
Description: HUGO 4 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH FROSTED LENS
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2718.5 lumens
Efficiency: N/A
Efficacy: 117.2 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.25 / 1.28
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 4' x H: 0.01')
CIE Type: Direct

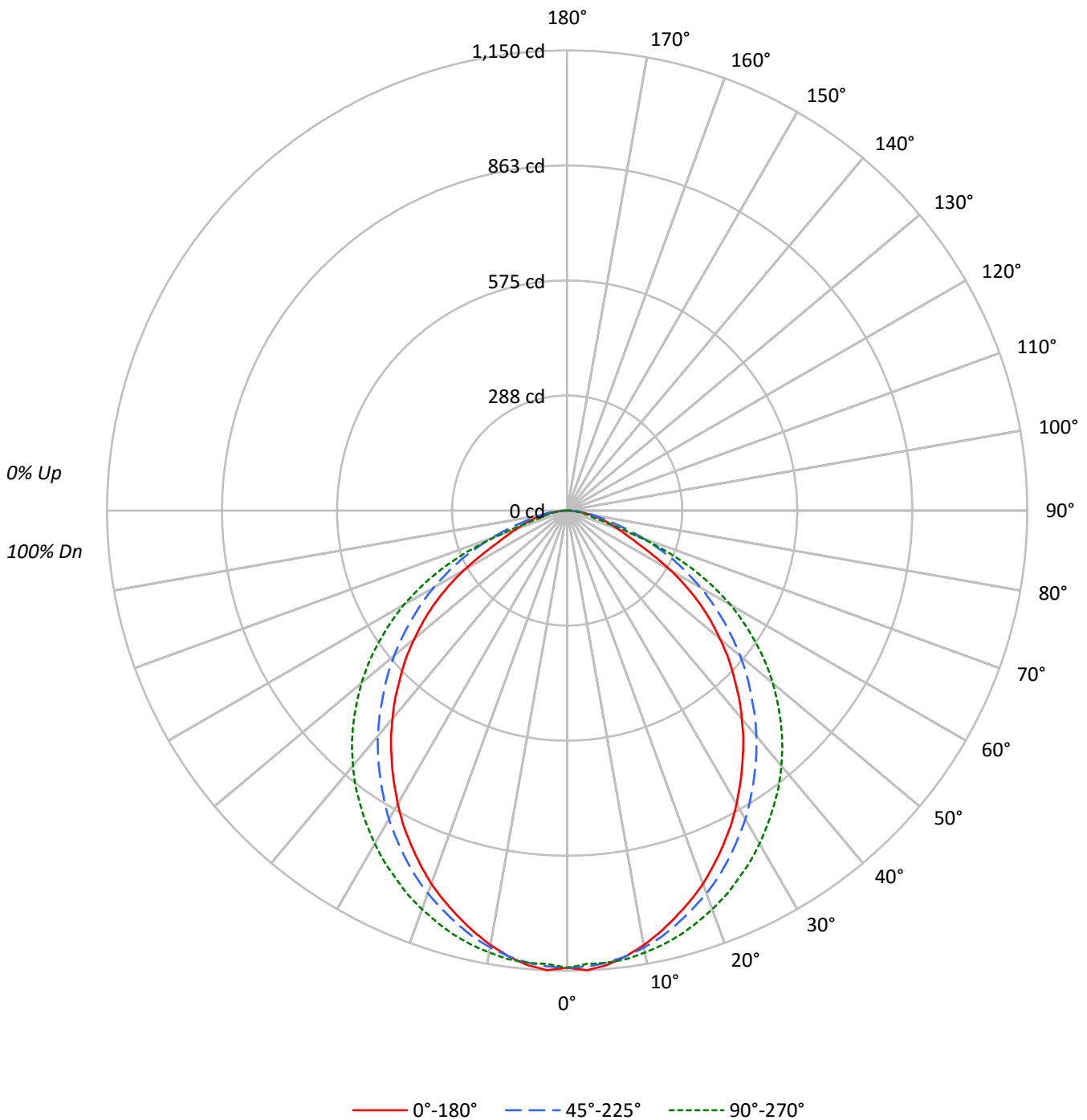
Input Watts (W): 23.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75	73
3	92	82	75	68	90	81	74	68	78	72	67	75	70	66	73	68	64	62
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	54	50	59	53	49	47
6	72	59	51	45	70	59	50	45	57	50	44	55	49	44	54	48	43	41
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37
8	63	49	41	36	61	49	41	35	47	40	35	46	40	35	45	39	35	33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13415	13415	13415
5°	13438	13329	13316
10°	13139	13144	13268
15°	12766	12866	13183
20°	12396	12573	13042
25°	11936	12227	12874
30°	11461	11854	12714
35°	10938	11421	12522
40°	10388	10981	12315
45°	9767	10447	12029
50°	9070	9923	11647
55°	8227	9289	11098
60°	6992	8567	10299
65°	5353	7655	8829
70°	4631	6371	5714
75°	4261	4728	2669
80°	3794	3783	2282
85°	3170	3199	1708



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.4	3.9
10°-20°	301.1	11.1
20°-30°	441.6	16.2
30°-40°	512.1	18.8
40°-50°	507.1	18.7
50°-60°	427.9	15.7
60°-70°	277.3	10.2
70°-80°	112.2	4.1
80°-90°	31.1	1.1
90°-100°	0.7	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°	850.1	31.3
0°-40°	1362.2	50.1
0°-60°	2297.2	84.5
0°-90°	2717.8	100.0
90°-120°	0.7	0.0
90°-150°	0.7	0.0
90°-180°	1.0	0.0
0°-180°	2718.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1142	1142	1142	1142	1142	
5°	1140	1129	1134	1133	1134	108
15°	1051	1046	1068	1087	1097	296
25°	922	922	958	988	1014	425
35°	764	770	815	858	900	478
45°	590	602	650	704	756	455
55°	403	424	475	531	576	358
65°	194	224	295	331	348	201
75°	95	99	117	96	68	101
85°	24	28	33	26	19	27
90°	0	4	7	5	0	1
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1142.4	1142.4	1142.4	1142.4	1142.4
2.5°	1149.8	1137.1	1140.3	1138.2	1134.0
5°	1140.3	1128.7	1134.0	1132.9	1134.0
7.5°	1123.4	1114.0	1123.4	1126.6	1130.8
10°	1102.4	1095.0	1108.7	1116.1	1121.3
12.5°	1078.2	1071.8	1090.8	1102.4	1110.8
15°	1050.8	1045.5	1067.6	1086.6	1097.1
17.5°	1022.4	1018.1	1043.4	1067.6	1079.2
20°	992.9	988.7	1018.1	1042.4	1060.3
22.5°	958.1	956.0	989.7	1015.0	1039.2
25°	922.3	922.3	958.1	987.6	1013.9
27.5°	886.5	886.5	924.4	957.1	989.7
30°	846.5	849.7	890.7	926.5	961.3
32.5°	805.5	810.7	852.8	892.8	931.8
35°	764.4	769.7	814.9	858.1	900.2
37.5°	723.3	730.7	776.0	821.3	868.6
40°	679.1	688.6	736.0	783.3	832.8
42.5°	635.9	646.5	693.9	744.4	796.0
45°	589.6	602.3	649.6	704.4	756.0
47.5°	546.4	559.1	608.6	662.3	713.9
50°	498.0	513.8	564.3	620.2	670.7
52.5°	451.7	469.6	519.1	575.9	625.4
55°	403.3	424.3	474.9	530.7	575.9
57.5°	351.7	376.9	429.6	483.3	524.3
60°	299.0	329.6	385.4	434.8	471.7
62.5°	242.2	278.0	339.0	385.4	411.7
65°	193.7	224.3	294.8	330.6	347.5
67.5°	161.1	179.0	246.4	272.7	272.7
70°	135.8	145.3	202.2	208.5	186.4
72.5°	114.8	120.0	157.9	142.1	106.3
75°	94.8	99.0	116.9	95.8	68.4
77.5°	75.8	79.0	88.4	72.6	53.7
80°	56.9	61.1	66.3	55.8	42.1
82.5°	40.0	43.2	49.5	41.1	30.5
85°	24.2	28.4	32.6	26.3	19.0
87.5°	10.5	13.7	17.9	13.7	8.4
90°	0.0	4.2	7.4	5.3	0.0
92.5°	0.0	0.0	1.1	1.1	0.0
95°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)