

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: P256937

Luminaire Tested: **HGL-S-BF-80L830-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256937
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-80L830-UNV-4
Description: HUGO 4 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH FROSTED LENS
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

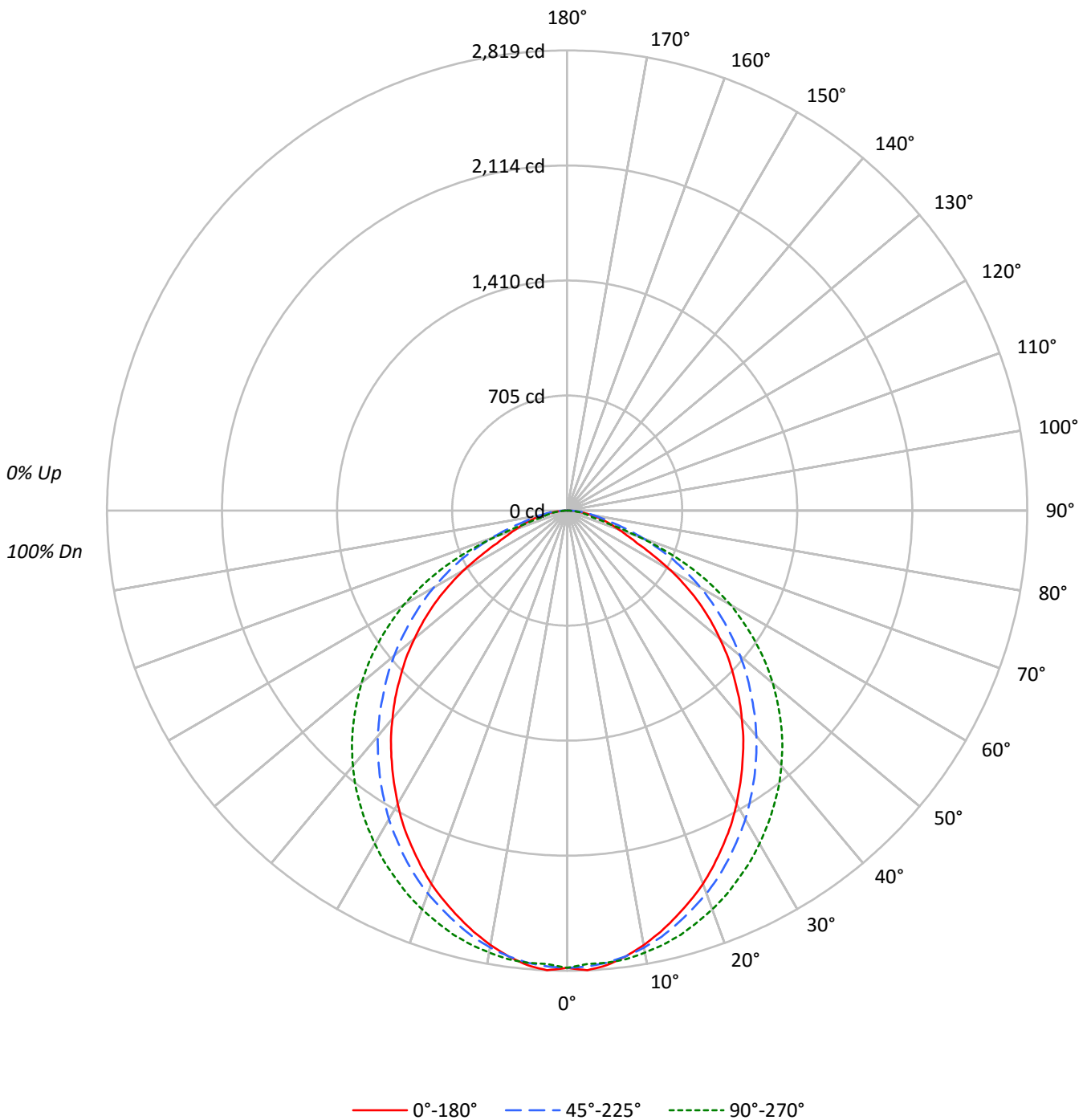
Lumens per Lamp: N/A
Luminaire Lumens: 6664.7 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.25 / 1.28
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 4' x H: 0.01')
CIE Type: Direct

Input Watts (W): 70.9
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	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°	32887	32887	32887
5°	32944	32675	32644
10°	32210	32224	32529
15°	31296	31543	32320
20°	30389	30825	31973
25°	29263	29978	31565
30°	28098	29063	31169
35°	26817	28000	30699
40°	25467	26921	30193
45°	23945	25612	29491
50°	22237	24330	28553
55°	20167	22773	27211
60°	17143	21000	25250
65°	13127	18770	21642
70°	11355	15616	14007
75°	10442	11588	6547
80°	9295	9279	5600
85°	7781	7851	4180



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.2	3.9
10°-20°	738.1	11.1
20°-30°	1082.7	16.2
30°-40°	1255.6	18.8
40°-50°	1243.1	18.7
50°-60°	1049.0	15.7
60°-70°	679.8	10.2
70°-80°	275.0	4.1
80°-90°	76.3	1.1
90°-100°	1.8	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°	2084.1	31.3
0°-40°	3339.6	50.1
0°-60°	5631.8	84.5
0°-90°	6662.9	100.0
90°-120°	1.8	0.0
90°-150°	1.8	0.0
90°-180°	2.0	0.0
0°-180°	6664.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2801	2801	2801	2801	2801	
5°	2796	2767	2780	2778	2780	264
15°	2576	2563	2617	2664	2690	726
25°	2261	2261	2349	2421	2486	1041
35°	1874	1887	1998	2104	2207	1172
45°	1446	1476	1593	1727	1853	1116
55°	989	1040	1164	1301	1412	878
65°	475	550	723	810	852	493
75°	232	243	286	235	168	247
85°	59	70	80	64	46	65
90°	0	10	18	13	0	4
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°	2800.7	2800.7	2800.7	2800.7	2800.7
2.5°	2818.8	2787.8	2795.5	2790.4	2780.0
5°	2795.5	2767.1	2780.0	2777.5	2780.0
7.5°	2754.2	2731.0	2754.2	2762.0	2772.3
10°	2702.6	2684.5	2718.1	2736.2	2749.1
12.5°	2643.2	2627.7	2674.2	2702.6	2723.2
15°	2576.1	2563.2	2617.4	2663.9	2689.7
17.5°	2506.4	2496.1	2558.0	2617.4	2645.8
20°	2434.1	2423.8	2496.1	2555.5	2599.3
22.5°	2349.0	2343.8	2426.4	2488.4	2547.7
25°	2261.2	2261.2	2349.0	2421.2	2485.8
27.5°	2173.4	2173.4	2266.4	2346.4	2426.4
30°	2075.3	2083.1	2183.8	2271.5	2356.7
32.5°	1974.7	1987.6	2090.8	2188.9	2284.4
35°	1874.0	1886.9	1997.9	2103.7	2207.0
37.5°	1773.3	1791.4	1902.4	2013.4	2129.6
40°	1664.9	1688.2	1804.3	1920.5	2041.8
42.5°	1559.1	1584.9	1701.1	1825.0	1951.4
45°	1445.5	1476.5	1592.6	1726.9	1853.4
47.5°	1339.7	1370.7	1492.0	1623.6	1750.1
50°	1220.9	1259.7	1383.6	1520.4	1644.3
52.5°	1107.4	1151.3	1272.6	1412.0	1533.3
55°	988.6	1040.3	1164.2	1301.0	1412.0
57.5°	862.1	924.1	1053.2	1184.8	1285.5
60°	733.1	807.9	944.7	1066.1	1156.4
62.5°	593.7	681.5	831.2	944.7	1009.3
65°	475.0	549.8	722.8	810.5	851.8
67.5°	394.9	438.8	604.0	668.6	668.6
70°	333.0	356.2	495.6	511.1	456.9
72.5°	281.4	294.3	387.2	348.5	260.7
75°	232.3	242.6	286.5	234.9	167.8
77.5°	185.9	193.6	216.8	178.1	131.6
80°	139.4	149.7	162.6	136.8	103.3
82.5°	98.1	105.8	121.3	100.7	74.9
85°	59.4	69.7	80.0	64.5	46.5
87.5°	25.8	33.6	43.9	33.6	20.7
90°	0.0	10.3	18.1	12.9	0.0
92.5°	0.0	0.0	2.6	2.6	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)