

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: NEO-RAY

Report Number: P199572

Luminaire Tested: **S125-DIW-ULO-LO-40-0048-1D-UDD-1-NA-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199572
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P27900 P27899)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125-DIW-ULO-LO-40-0048-1D-UDD-1-NA-W
Description: DEFINE 5-INCH DIRECT/INDIRECT WALL LED LUMINAIRE
UPLIGHT LLO-4000K, NO LENS
DOWNLIGHT LLO-4000K, SATIN WHITE DIFFUSER
Light Source: -
757G
Ballast/Driver: ELECTRONIC DRIVERS

Summary

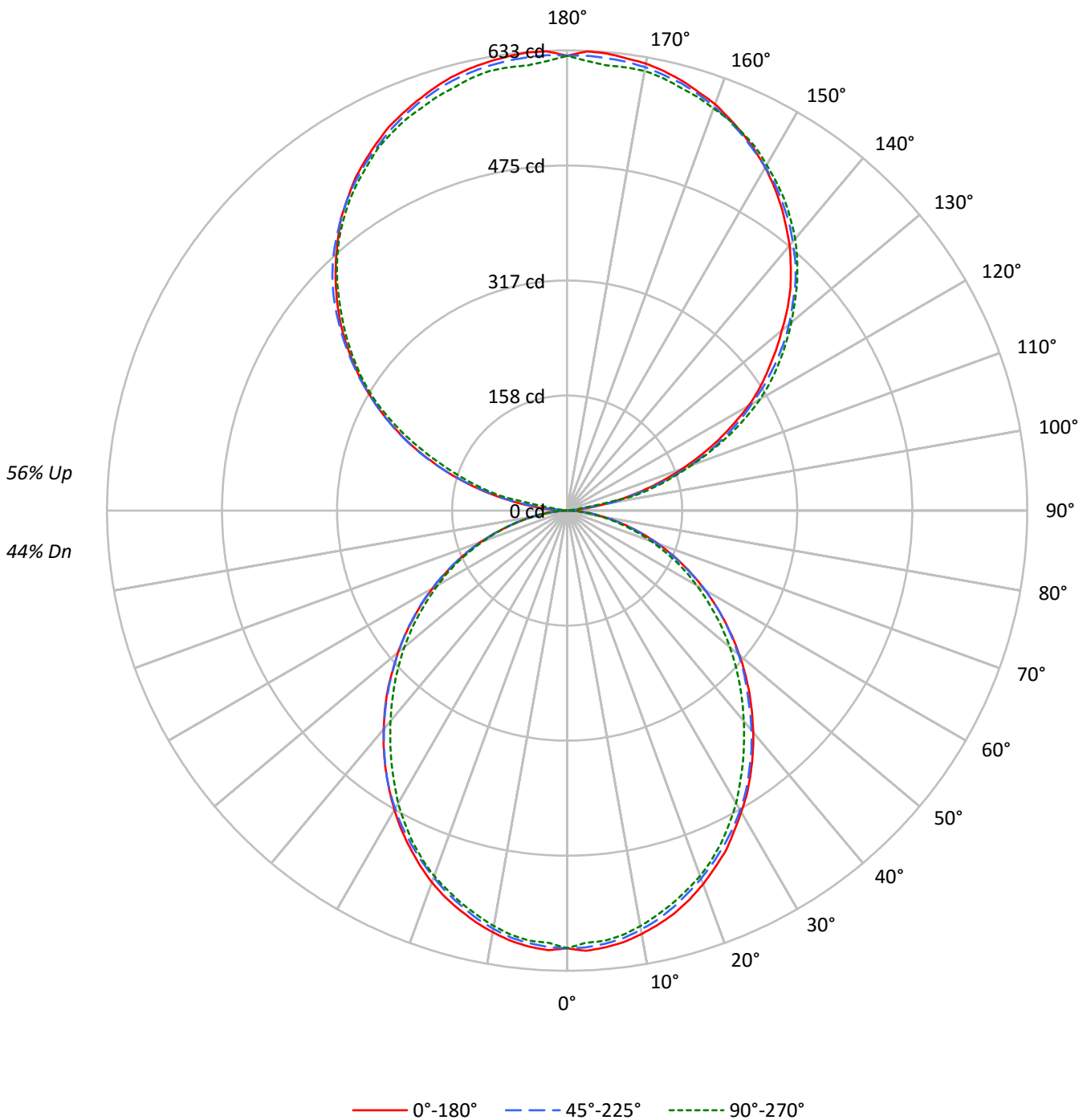
Lumens per Lamp: N/A
Luminaire Lumens: 3379.0 lumens
Efficiency: N/A
Efficacy: 125.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4.08' x H: 0.38')
CIE Type: General Diffuse

Input Watts (W): 26.9
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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	44
1	97	92	89	85	88	85	81	79	70	68	66	57	56	54	45	44	43	38
2	88	81	75	70	80	74	69	64	62	58	55	50	48	45	40	38	36	32
3	80	71	64	58	73	65	59	54	55	50	46	45	41	38	35	33	31	27
4	73	63	55	49	67	58	51	46	48	43	39	40	36	33	32	29	27	23
5	67	56	48	42	62	52	45	39	43	38	34	36	32	29	29	26	23	20
6	62	50	42	36	57	46	39	34	39	34	30	32	28	25	26	23	21	18
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	24	21	18	16
8	53	41	33	28	49	38	31	26	32	27	23	27	23	20	22	19	16	14
9	50	37	30	25	45	35	28	24	30	24	21	25	21	18	20	17	15	13
10	46	34	27	22	42	32	25	21	27	22	19	23	19	16	19	16	13	12

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	3809	3809	3809
5°	3800	3496	3793
10°	3738	3217	3724
15°	3662	2953	3639
20°	3562	2713	3545
25°	3455	2473	3425
30°	3322	2235	3297
35°	3195	1997	3157
40°	3054	1779	3011
45°	2904	1579	2862
50°	2746	1388	2693
55°	2576	1200	2515
60°	2393	1017	2328
65°	2194	839	2115
70°	1959	651	1867
75°	1644	463	1529
80°	1243	288	1138
85°	744	125	652



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.6	1.7
10°-20°	158.9	4.7
20°-30°	233.5	6.9
30°-40°	269.6	8.0
40°-50°	267.3	7.9
50°-60°	231.8	6.9
60°-70°	169.3	5.0
70°-80°	92.5	2.7
80°-90°	24.1	0.7
90°-100°	19.9	0.6
100°-110°	132.9	3.9
110°-120°	243.8	7.2
120°-130°	316.0	9.4
130°-140°	343.3	10.2
140°-150°	324.5	9.6
150°-160°	264.0	7.8
160°-170°	171.7	5.1
170°-180°	59.4	1.8
0°-30°	449.0	13.3
0°-40°	718.6	21.3
0°-60°	1217.7	36.0
0°-90°	1503.7	44.5
90°-120°	396.5	11.7
90°-150°	1380.3	40.9
90°-180°	1875.0	55.5
0°-180°	3379.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	602	602	602	602	602	
5°	603	598	594	598	602	57
15°	573	565	560	563	569	161
25°	516	509	503	507	512	237
35°	440	437	422	435	435	275
45°	354	350	335	348	349	273
55°	264	264	249	259	258	236
65°	175	174	164	170	169	174
75°	90	90	82	84	84	96
85°	21	22	20	20	18	24
90°	1	2	1	1	1	2
95°	13	4	4	6	31	20
105°	109	116	124	137	140	116
115°	230	239	246	258	257	226
125°	338	348	356	363	361	302
135°	434	444	448	457	451	334
145°	512	517	522	526	526	321
155°	572	570	572	577	582	264
165°	612	608	602	612	617	173
175°	631	625	615	626	633	60
180°	626	626	626	626	626	



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CATALOG NUMBER: S125-DIW-ULO-LO-40-0048-1D-UDD-1-NA-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	602.0	602.0	602.0	602.0	602.0	602.0	602.0	602.0	602.0
2.5°	606.1	599.8	601.3	600.2	595.0	599.4	600.9	598.7	605.3
5°	603.1	596.8	598.3	596.8	593.9	596.1	597.6	595.4	602.0
7.5°	598.7	592.1	593.2	591.7	588.7	590.6	592.4	590.2	596.8
10°	591.3	585.1	585.4	583.6	580.3	582.5	584.3	582.5	589.1
12.5°	582.8	576.2	576.2	573.3	570.3	572.2	574.7	573.3	579.9
15°	572.9	565.9	564.8	562.9	559.6	561.8	562.9	562.6	569.2
17.5°	560.7	553.4	551.9	551.5	547.5	550.4	550.8	549.7	557.8
20°	546.7	539.7	538.6	538.3	534.9	537.2	537.2	535.7	544.2
22.5°	531.3	524.6	524.3	523.5	519.8	522.4	522.4	520.2	528.7
25°	516.2	508.1	509.2	507.3	502.9	506.6	506.9	503.3	511.7
27.5°	497.4	491.1	493.3	490.0	484.1	488.9	491.1	485.6	494.4
30°	478.9	472.3	476.0	470.1	464.9	469.4	473.4	466.4	475.3
32.5°	460.9	453.2	457.6	450.2	442.8	448.4	455.0	448.4	455.4
35°	440.3	434.0	436.6	428.8	421.5	427.0	435.1	428.8	435.1
37.5°	419.6	414.5	416.3	407.1	399.7	405.3	413.7	408.9	414.5
40°	398.3	394.6	394.6	385.4	378.0	383.2	392.0	389.4	392.7
42.5°	376.2	374.7	371.7	363.6	356.6	361.8	370.3	369.5	371.0
45°	354.4	354.4	349.6	341.2	335.3	340.1	347.8	349.6	349.3
47.5°	331.9	333.8	329.7	320.5	313.9	318.7	325.7	329.0	325.3
50°	309.5	312.8	307.6	299.5	292.2	297.3	303.2	307.6	303.6
52.5°	287.0	291.1	285.5	277.8	270.4	275.2	281.1	286.3	281.1
55°	264.2	268.9	263.8	255.7	248.7	253.1	259.0	264.2	257.9
57.5°	241.7	246.1	241.7	233.6	226.9	231.0	237.3	241.3	235.8
60°	219.2	224.0	219.6	211.8	205.6	208.9	214.8	218.8	213.3
62.5°	197.1	201.2	196.4	190.1	185.3	186.8	192.3	197.1	191.2
65°	175.4	179.1	173.9	168.4	164.3	165.1	169.8	172.4	169.1
67.5°	154.0	158.1	152.5	147.4	142.6	144.1	148.1	151.8	147.7
70°	132.6	136.7	130.8	126.4	122.3	123.1	126.4	130.4	126.4
72.5°	111.6	114.9	110.9	105.7	102.8	103.5	105.4	109.1	105.0
75°	90.3	93.9	89.5	85.5	82.5	83.3	84.4	87.3	84.0
77.5°	70.4	72.9	70.0	66.7	64.8	65.2	65.6	67.8	64.8
80°	51.9	54.2	52.3	49.7	48.3	48.3	48.3	50.1	47.5
82.5°	35.4	37.6	36.1	34.3	33.2	32.1	32.8	34.3	32.1
85°	21.0	22.8	22.1	20.3	19.5	18.8	19.5	20.3	18.4
87.5°	9.6	11.1	9.9	8.1	7.4	6.6	6.6	7.7	6.3
90°	0.7	1.8	1.5	1.1	0.7	0.7	1.1	1.5	0.7
92.5°	1.8	2.6	2.6	2.9	2.9	3.3	3.7	4.4	12.5
95°	13.3	14.7	4.1	4.4	4.4	4.8	6.3	35.7	30.6
97.5°	30.6	39.1	12.9	7.7	7.0	10.3	39.8	56.7	53.8
100°	54.5	60.8	61.5	40.2	27.3	56.4	78.5	84.7	80.7
102.5°	80.7	87.7	85.8	93.2	95.8	103.9	105.7	113.8	110.5
105°	109.1	116.8	115.7	123.1	123.8	133.0	136.7	141.5	139.6
107.5°	138.9	144.4	147.4	152.2	151.8	161.7	169.1	171.3	169.5
110°	169.5	173.2	178.7	182.0	182.0	191.9	200.4	200.8	198.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	198.6	204.8	210.0	214.1	213.3	224.0	229.9	231.0	228.8
115°	229.5	232.1	239.1	245.0	246.1	254.2	258.3	259.4	257.2
117.5°	257.9	261.9	266.4	273.4	277.1	282.2	285.2	287.0	284.8
120°	288.1	290.7	293.3	299.9	306.5	309.5	311.7	313.2	311.3
122.5°	314.3	316.1	321.6	326.1	332.7	334.9	338.2	337.8	336.4
125°	337.5	340.1	348.2	350.7	356.3	359.2	363.3	361.1	361.1
127.5°	361.8	364.0	374.3	374.7	379.8	383.2	388.3	384.6	385.0
130°	385.7	389.4	398.6	398.6	402.7	406.4	412.3	406.7	408.2
132.5°	411.2	412.3	420.7	421.1	424.8	428.5	435.5	428.1	429.6
135°	434.4	433.3	444.3	442.5	447.6	449.8	456.8	448.0	450.6
137.5°	455.4	452.8	464.6	462.7	468.3	468.6	476.0	467.5	470.5
140°	476.0	473.1	483.0	481.9	488.2	487.4	492.9	485.9	490.0
142.5°	494.4	491.1	500.7	500.3	505.1	505.1	509.9	504.0	509.9
145°	512.5	508.1	516.9	516.5	521.7	521.3	525.7	520.2	525.7
147.5°	529.4	525.0	532.0	531.3	535.7	536.1	539.7	536.4	542.3
150°	544.9	540.8	545.3	544.9	548.9	549.3	553.0	551.5	555.9
152.5°	558.9	555.2	557.4	556.7	562.6	560.4	564.8	564.1	568.8
155°	571.8	568.1	569.9	568.5	572.5	572.2	576.9	576.2	581.7
157.5°	583.6	579.5	581.0	578.8	581.7	581.7	587.3	587.3	591.3
160°	595.0	589.5	591.3	587.6	588.7	590.2	596.8	596.8	600.5
162.5°	603.1	599.4	600.5	595.4	596.5	597.2	604.9	604.9	609.4
165°	611.9	607.2	608.3	602.0	602.4	604.2	611.9	612.3	617.1
167.5°	618.9	614.2	613.8	607.5	609.4	609.7	617.1	617.5	622.6
170°	624.5	619.3	619.3	612.7	614.2	613.4	621.2	622.3	626.7
172.5°	627.4	623.7	622.6	615.3	614.9	616.0	624.1	625.6	630.0
175°	631.1	626.7	624.8	617.8	614.9	618.6	625.9	627.4	632.6
177.5°	632.2	627.8	626.3	618.9	618.9	619.7	627.1	628.2	632.2
180°	625.6	625.6	625.6	625.6	625.6	625.6	625.6	625.6	625.6

(END OF REPORT)