

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: P199568

Luminaire Tested: **S125-DIW-ULO-LO-30-0048-1D-UDD-1-NA-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199568
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-30-0048-1D-UDD-1-NA-W
Description: DEFINE 5-INCH DIRECT/INDIRECT WALL LED LUMINAIRE
UPLIGHT LLO-3000K, NO LENS
DOWNLIGHT LLO-3000K, SATIN WHITE DIFFUSER
Light Source: -
757G
Ballast/Driver: ELECTRONIC DRIVERS

Summary

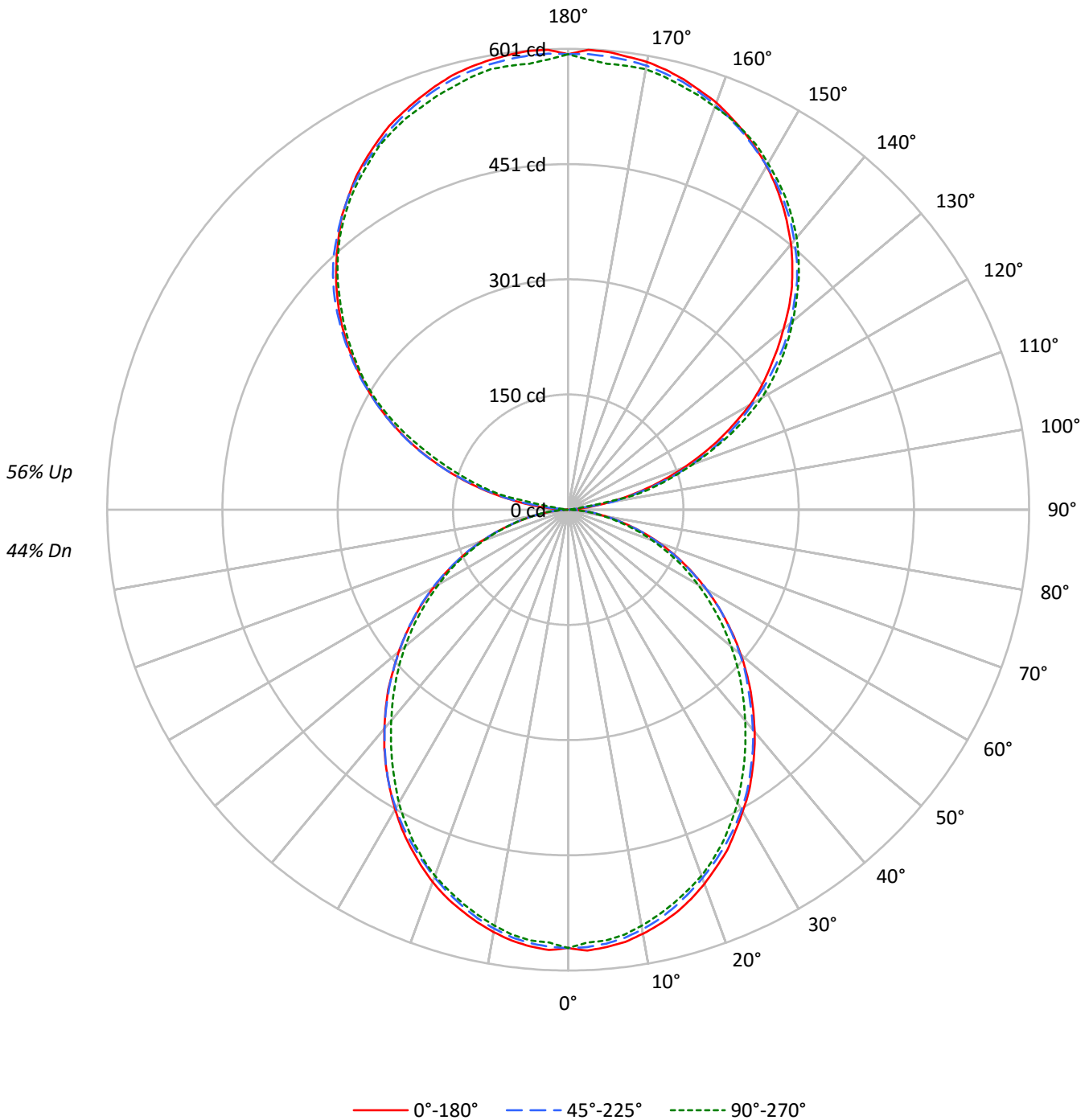
Lumens per Lamp: N/A
Luminaire Lumens: 3208.6 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4.08' x H: 0.38')
CIE Type: General Diffuse

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°	3616	3616	3616
5°	3608	3320	3601
10°	3550	3055	3536
15°	3477	2804	3455
20°	3382	2576	3366
25°	3281	2348	3253
30°	3155	2122	3131
35°	3034	1896	2998
40°	2900	1689	2859
45°	2757	1499	2718
50°	2607	1317	2558
55°	2446	1140	2388
60°	2273	965	2212
65°	2082	797	2009
70°	1860	618	1772
75°	1560	440	1453
80°	1181	273	1080
85°	705	119	620



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.7	1.7
10°-20°	150.9	4.7
20°-30°	221.7	6.9
30°-40°	256.1	8.0
40°-50°	253.8	7.9
50°-60°	220.1	6.9
60°-70°	160.8	5.0
70°-80°	87.9	2.7
80°-90°	22.8	0.7
90°-100°	18.8	0.6
100°-110°	126.2	3.9
110°-120°	231.5	7.2
120°-130°	300.1	9.4
130°-140°	326.0	10.2
140°-150°	308.1	9.6
150°-160°	250.7	7.8
160°-170°	163.0	5.1
170°-180°	56.4	1.8
0°-30°	426.3	13.3
0°-40°	682.4	21.3
0°-60°	1156.3	36.0
0°-90°	1427.8	44.5
90°-120°	376.5	11.7
90°-150°	1310.7	40.9
90°-180°	1781.0	55.5
0°-180°	3208.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	572	572	572	572	572	
5°	573	568	564	567	572	54
15°	544	536	531	535	540	153
25°	490	484	478	481	486	225
35°	418	415	400	413	413	261
45°	336	332	318	330	332	260
55°	251	250	236	246	245	224
65°	166	165	156	161	161	165
75°	86	85	78	80	80	91
85°	20	21	18	18	18	22
90°	1	1	1	1	1	2
95°	13	4	4	6	29	19
105°	104	110	118	130	133	110
115°	218	227	234	245	244	215
125°	320	331	338	345	343	287
135°	412	422	425	434	428	317
145°	487	491	495	499	499	304
155°	543	541	544	548	552	250
165°	581	578	572	581	586	164
175°	599	593	584	594	601	57
180°	594	594	594	594	594	



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CATALOG NUMBER: S125-DIW-ULO-LO-30-0048-1D-UDD-1-NA-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	571.6	571.6	571.6	571.6	571.6	571.6	571.6	571.6	571.6
2.5°	575.5	569.5	570.9	569.9	565.0	569.2	570.6	568.5	574.8
5°	572.7	566.7	568.1	566.7	563.9	566.0	567.4	565.3	571.6
7.5°	568.5	562.2	563.2	561.8	559.0	560.8	562.5	560.4	566.7
10°	561.5	555.5	555.9	554.2	551.0	553.1	554.9	553.1	559.4
12.5°	553.5	547.2	547.2	544.4	541.6	543.3	545.8	544.4	550.7
15°	544.0	537.4	536.3	534.6	531.4	533.5	534.6	534.2	540.5
17.5°	532.5	525.5	524.1	523.7	519.9	522.7	523.0	522.0	529.7
20°	519.2	512.5	511.5	511.1	508.0	510.1	510.1	508.7	516.7
22.5°	504.5	498.2	497.8	497.1	493.6	496.1	496.1	494.0	502.0
25°	490.1	482.4	483.5	481.7	477.5	481.0	481.4	477.9	485.9
27.5°	472.3	466.3	468.4	465.3	459.7	464.2	466.3	461.1	469.5
30°	454.8	448.5	452.0	446.4	441.5	445.7	449.5	442.9	451.3
32.5°	437.7	430.3	434.5	427.5	420.5	425.8	432.1	425.8	432.4
35°	418.1	412.1	414.6	407.2	400.2	405.5	413.2	407.2	413.2
37.5°	398.5	393.6	395.3	386.6	379.6	384.8	392.9	388.3	393.6
40°	378.2	374.7	374.7	365.9	358.9	363.8	372.2	369.8	372.9
42.5°	357.2	355.8	353.0	345.3	338.6	343.5	351.6	350.9	352.3
45°	336.5	336.5	332.0	324.0	318.4	322.9	330.3	332.0	331.7
47.5°	315.2	317.0	313.1	304.4	298.1	302.6	309.3	312.4	308.9
50°	293.9	297.0	292.1	284.4	277.4	282.3	287.9	292.1	288.3
52.5°	272.5	276.4	271.1	263.8	256.8	261.3	266.9	271.8	266.9
55°	250.8	255.4	250.5	242.8	236.1	240.3	245.9	250.8	244.9
57.5°	229.5	233.7	229.5	221.8	215.5	219.4	225.3	229.1	223.9
60°	208.2	212.7	208.5	201.2	195.2	198.4	204.0	207.8	202.6
62.5°	187.2	191.0	186.5	180.5	176.0	177.4	182.6	187.2	181.6
65°	166.5	170.0	165.1	159.9	156.0	156.7	161.3	163.7	160.6
67.5°	146.2	150.1	144.8	139.9	135.4	136.8	140.6	144.1	140.3
70°	125.9	129.8	124.2	120.0	116.1	116.8	120.0	123.8	120.0
72.5°	106.0	109.2	105.3	100.4	97.6	98.3	100.1	103.6	99.7
75°	85.7	89.2	85.0	81.2	78.4	79.1	80.1	82.9	79.8
77.5°	66.8	69.3	66.5	63.3	61.6	61.9	62.3	64.4	61.6
80°	49.3	51.4	49.7	47.2	45.8	45.8	45.8	47.6	45.1
82.5°	33.6	35.7	34.3	32.5	31.5	30.4	31.1	32.5	30.4
85°	19.9	21.7	21.0	19.2	18.5	17.8	18.5	19.2	17.5
87.5°	9.1	10.5	9.4	7.7	7.0	6.3	6.3	7.3	5.9
90°	0.7	1.7	1.4	1.0	0.7	0.7	1.0	1.4	0.7
92.5°	1.7	2.4	2.4	2.8	2.8	3.1	3.5	4.2	11.9
95°	12.6	14.0	3.8	4.2	4.2	4.5	5.9	33.9	29.0
97.5°	29.0	37.1	12.2	7.3	6.6	9.8	37.8	53.9	51.1
100°	51.8	57.7	58.4	38.1	25.9	53.5	74.5	80.5	76.6
102.5°	76.6	83.3	81.5	88.5	91.0	98.7	100.4	108.1	105.0
105°	103.6	110.9	109.9	116.8	117.5	126.3	129.8	134.3	132.6
107.5°	131.9	137.1	139.9	144.5	144.1	153.6	160.6	162.7	160.9
110°	160.9	164.4	169.7	172.8	172.8	182.3	190.3	190.7	188.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	188.6	194.5	199.4	203.3	202.6	212.7	218.3	219.4	217.3
115°	218.0	220.4	227.0	232.6	233.7	241.4	245.2	246.3	244.2
117.5°	244.9	248.7	252.9	259.6	263.1	268.0	270.8	272.5	270.4
120°	273.6	276.0	278.5	284.8	291.1	293.9	296.0	297.4	295.6
122.5°	298.4	300.2	305.4	309.6	315.9	318.0	321.2	320.8	319.4
125°	320.5	322.9	330.6	333.1	338.3	341.1	344.9	342.8	342.8
127.5°	343.5	345.6	355.4	355.8	360.7	363.8	368.7	365.2	365.6
130°	366.3	369.8	378.5	378.5	382.4	385.9	391.5	386.2	387.6
132.5°	390.4	391.5	399.5	399.9	403.4	406.9	413.5	406.5	407.9
135°	412.5	411.4	421.9	420.2	425.1	427.2	433.8	425.4	427.9
137.5°	432.4	430.0	441.2	439.4	444.6	445.0	452.0	444.0	446.7
140°	452.0	449.2	458.6	457.6	463.5	462.8	468.1	461.4	465.3
142.5°	469.5	466.3	475.4	475.1	479.6	479.6	484.2	478.6	484.2
145°	486.6	482.4	490.8	490.5	495.4	495.0	499.2	494.0	499.2
147.5°	502.7	498.5	505.2	504.5	508.7	509.0	512.5	509.4	515.0
150°	517.4	513.6	517.8	517.4	521.3	521.6	525.1	523.7	527.9
152.5°	530.7	527.2	529.3	528.6	534.2	532.1	536.3	535.6	540.2
155°	543.0	539.5	541.2	539.8	543.7	543.3	547.9	547.2	552.4
157.5°	554.2	550.3	551.7	549.6	552.4	552.4	557.6	557.6	561.5
160°	565.0	559.7	561.5	558.0	559.0	560.4	566.7	566.7	570.2
162.5°	572.7	569.2	570.2	565.3	566.4	567.1	574.4	574.4	578.6
165°	581.1	576.5	577.6	571.6	572.0	573.7	581.1	581.4	586.0
167.5°	587.7	583.2	582.8	576.9	578.6	579.0	586.0	586.3	591.2
170°	593.0	588.1	588.1	581.8	583.2	582.5	589.8	590.9	595.1
172.5°	595.8	592.3	591.2	584.2	583.9	584.9	592.6	594.0	598.2
175°	599.3	595.1	593.3	586.7	583.9	587.4	594.4	595.8	600.7
177.5°	600.3	596.1	594.7	587.7	587.7	588.4	595.4	596.5	600.3
180°	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0

(END OF REPORT)