

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P243748

Luminaire Tested: S125RDRP-H375D930-X4F0-XX-UDD-F-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P243748
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-66)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-H375D930-X4F0-XX-UDD-F-W
Description: DEFINE 5 REGRESSED DIRECT RECESSED WITH SATIN FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

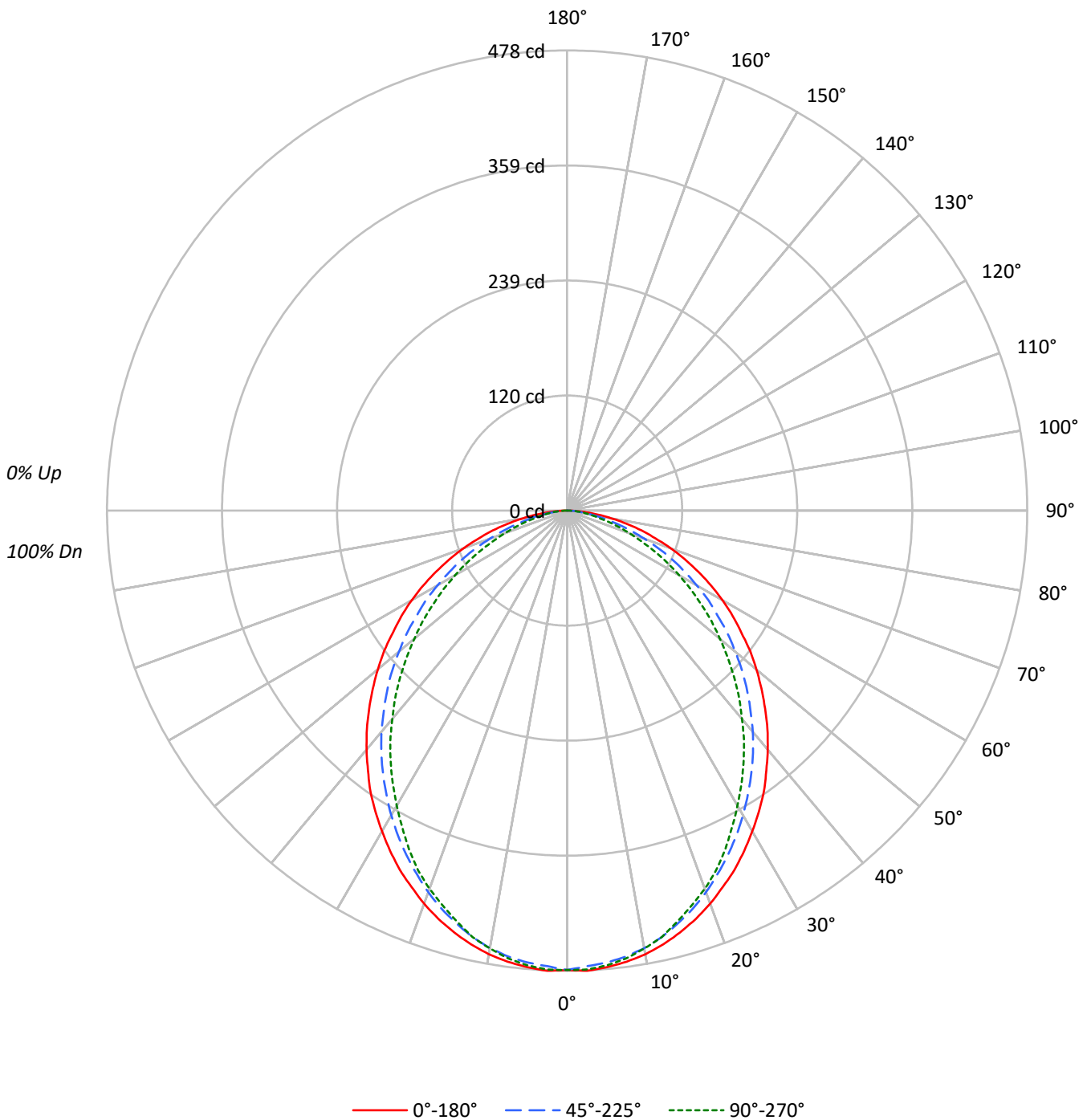
Lumens per Lamp: N/A
Luminaire Lumens: 1140.5 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.12 / 1.26
Luminous Opening: Rectangular (W 0.39' x L: 3.88' x H: 0')
CIE Type: Direct

Input Watts (W): 11.2
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: 24 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	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	43	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	49	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	35	45	39	34	32
9	58	45	37	32	57	45	37	32	43	36	31	42	36	31	41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	38	33	28	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3392	3392	3392
5°	3397	3362	3382
10°	3377	3331	3333
15°	3338	3267	3252
20°	3286	3191	3162
25°	3228	3097	3046
30°	3157	3000	2904
35°	3091	2894	2772
40°	3008	2783	2622
45°	2923	2659	2467
50°	2838	2521	2291
55°	2736	2368	2107
60°	2654	2212	1906
65°	2526	2026	1687
70°	2384	1773	1440
75°	2194	1480	1173
80°	1928	1146	966
85°	1639	946	889

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2923 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.9	3.9
10°-20°	125.9	11.0
20°-30°	183.2	16.1
30°-40°	209.8	18.4
40°-50°	205.3	18.0
50°-60°	173.3	15.2
60°-70°	121.4	10.6
70°-80°	61.6	5.4
80°-90°	15.2	1.3
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°	354.0	31.0
0°-40°	563.8	49.4
0°-60°	942.4	82.6
0°-90°	1140.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1140.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	477	477	477	477	477	
5°	476	475	471	474	474	45
15°	454	452	444	444	442	128
25°	412	407	395	391	388	189
35°	356	348	334	324	320	222
45°	291	281	264	250	245	224
55°	221	211	191	176	170	198
65°	150	139	120	106	100	149
75°	80	70	54	45	43	84
85°	20	13	12	11	11	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	477.2	477.2	477.2	477.2	477.2
2.5°	478.5	477.5	473.7	477.2	477.2
5°	476.1	475.1	471.3	474.4	474.1
7.5°	472.7	471.7	467.3	470.3	469.3
10°	467.9	466.6	461.5	463.2	461.8
12.5°	461.5	460.1	453.9	454.6	453.9
15°	453.6	451.9	444.0	443.7	442.0
17.5°	444.7	442.3	433.8	432.8	430.1
20°	434.5	431.4	421.9	419.8	418.1
22.5°	422.9	419.8	408.5	405.5	404.5
25°	411.6	406.8	394.9	390.8	388.4
27.5°	398.3	392.8	380.6	375.1	371.0
30°	384.7	378.5	365.5	358.4	353.9
32.5°	370.7	363.5	349.5	340.6	336.9
35°	356.3	347.8	333.5	323.6	319.5
37.5°	339.9	331.4	317.1	305.5	301.7
40°	324.2	315.4	300.0	287.4	282.6
42.5°	307.9	298.6	281.9	268.6	264.5
45°	290.8	281.2	264.5	250.5	245.4
47.5°	273.7	264.2	246.8	232.8	226.3
50°	256.7	246.4	228.0	213.7	207.2
52.5°	239.6	228.3	210.2	194.9	189.1
55°	220.8	211.3	191.1	175.8	170.0
57.5°	204.1	193.5	174.4	158.7	152.2
60°	186.7	175.1	155.6	140.3	134.1
62.5°	168.3	156.7	137.9	122.5	117.1
65°	150.2	138.6	120.5	105.5	100.3
67.5°	132.1	121.2	103.1	89.1	83.3
70°	114.7	103.4	85.3	72.7	69.3
72.5°	96.2	87.4	69.3	58.0	55.3
75°	79.9	70.0	53.9	45.1	42.7
77.5°	63.1	53.6	39.9	33.8	31.7
80°	47.1	38.9	28.0	24.2	23.6
82.5°	32.4	24.6	18.4	17.7	17.4
85°	20.1	13.0	11.6	10.9	10.9
87.5°	8.5	5.5	5.5	5.1	5.5
90°	0.0	0.0	0.0	0.0	0.0

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	15.67	17.25	16.03	17.56	17.87	14.16	15.74	14.52	16.05	16.36
	3H	17.43	18.85	17.81	19.18	19.54	15.44	16.86	15.82	17.19	17.55
	4H	18.09	19.42	18.49	19.77	20.15	15.83	17.16	16.22	17.51	17.89
	6H	18.56	19.79	18.97	20.16	20.55	16.06	17.30	16.47	17.66	18.05
	8H	18.70	19.88	19.13	20.27	20.67	16.14	17.32	16.56	17.70	18.10
	12H	18.80	19.92	19.23	20.31	20.74	16.19	17.32	16.62	17.70	18.13
4H	2H	16.07	17.40	16.47	17.75	18.13	14.84	16.18	15.24	16.53	16.90
	3H	18.03	19.14	18.44	19.54	19.94	16.31	17.42	16.72	17.82	18.22
	4H	18.81	19.81	19.24	20.23	20.67	16.77	17.78	17.21	18.19	18.63
	6H	19.40	20.28	19.86	20.72	21.18	17.09	17.97	17.55	18.41	18.87
	8H	19.59	20.41	20.05	20.85	21.32	17.20	18.01	17.66	18.46	18.92
	12H	19.73	20.46	20.21	20.93	21.40	17.28	18.01	17.76	18.49	18.96
8H	4H	18.93	19.75	19.39	20.19	20.66	17.08	17.90	17.54	18.34	18.81
	6H	19.61	20.28	20.10	20.77	21.25	17.48	18.15	17.97	18.64	19.12
	8H	19.84	20.45	20.36	20.96	21.45	17.63	18.24	18.14	18.74	19.23
	12H	20.03	20.57	20.54	21.06	21.62	17.77	18.30	18.27	18.79	19.36
12H	4H	18.92	19.66	19.41	20.13	20.60	17.12	17.85	17.60	18.33	18.80
	6H	19.60	20.21	20.11	20.71	21.20	17.53	18.13	18.04	18.64	19.13
	8H	19.88	20.41	20.38	20.90	21.47	17.73	18.26	18.23	18.75	19.32