

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1027942

Luminaire Tested: S125DIP-B375D850UB30-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027942
REPORT IS A COMBINATION OF REPORTS P1002088 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B375D850UB30-4F0-XX-W2A-D4
Description: Define 5 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

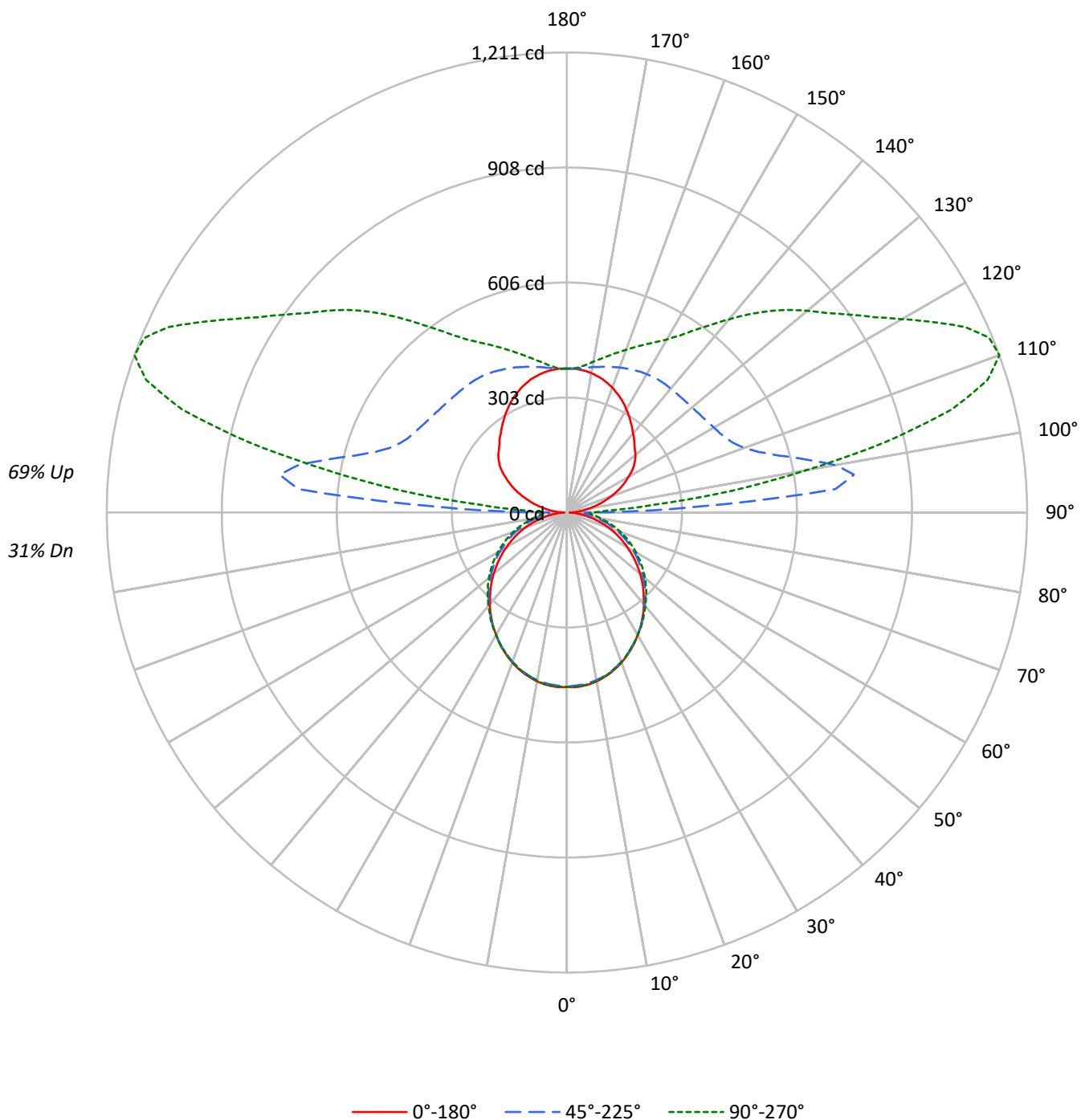
Lumens per Lamp: N/A
Luminaire Lumens: 4274.0 lumens
Efficiency: N/A
Efficacy: 125.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 34.1
Input Voltage (V):
Input Current (A_{in}): 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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	39	39	31
1	93	89	85	81	83	80	76	73	63	61	59	48	46	45	34	33	32	32	32	25
2	85	77	71	66	76	69	64	60	55	51	48	42	39	37	29	28	26	26	26	21
3	77	68	60	55	69	61	55	50	48	44	40	37	34	31	26	24	22	22	22	17
4	70	60	52	46	63	54	47	42	43	38	34	33	29	26	23	21	19	19	19	15
5	64	53	45	39	58	48	41	36	38	33	29	29	26	23	21	18	17	17	17	13
6	59	47	39	34	53	43	36	31	34	29	25	26	23	20	19	16	14	14	14	11
7	55	43	35	29	49	39	32	27	31	26	22	24	20	17	17	15	13	13	13	10
8	51	38	31	26	45	35	28	24	28	23	19	22	18	15	16	13	11	11	11	9
9	47	35	28	23	42	32	25	21	26	21	17	20	16	14	14	12	10	10	10	8
10	44	32	25	20	39	29	23	19	23	19	15	18	15	12	13	11	9	9	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2941	2941	2941
5°	2946	2879	2886
10°	2924	2821	2813
15°	2888	2752	2722
20°	2840	2670	2632
25°	2783	2582	2523
30°	2714	2487	2423
35°	2650	2398	2332
40°	2585	2305	2240
45°	2511	2225	2157
50°	2439	2137	2082
55°	2354	2054	1996
60°	2261	1959	1907
65°	2163	1859	1806
70°	2051	1724	1702
75°	1875	1591	1576
80°	1645	1431	1435
85°	1418	1303	1361

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2511 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.4	1.0
10°-20°	123.3	2.9
20°-30°	183.4	4.3
30°-40°	217.2	5.1
40°-50°	224.5	5.3
50°-60°	206.8	4.8
60°-70°	167.2	3.9
70°-80°	111.9	2.6
80°-90°	59.4	1.4
90°-100°	317.8	7.4
100°-110°	616.4	14.4
110°-120°	569.4	13.3
120°-130°	456.8	10.7
130°-140°	363.7	8.5
140°-150°	272.3	6.4
150°-160°	191.2	4.5
160°-170°	112.7	2.6
170°-180°	36.6	0.9
0°-30°	350.1	8.2
0°-40°	567.3	13.3
0°-60°	998.6	23.4
0°-90°	1337.0	31.3
90°-120°	1503.6	35.2
90°-150°	2596.5	60.8
90°-180°	2937.0	68.7
0°-180°	4274.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	459	459	459	459	459	
5°	459	458	455	459	458	44
15°	438	439	436	438	436	124
25°	398	400	397	399	396	183
35°	345	348	346	348	348	216
45°	284	289	291	294	295	219
55°	218	226	233	238	239	195
65°	150	161	172	178	180	149
75°	83	94	109	118	120	88
85°	25	40	55	65	69	26
90°	8	28	49	63	68	7
95°	31	92	709	350	225	31
105°	90	132	578	1124	1049	95
115°	157	192	462	984	1155	155
125°	216	252	436	780	908	191
135°	251	302	427	648	749	195
145°	292	334	424	531	586	183
155°	333	358	414	468	488	153
165°	363	373	397	421	428	102
175°	378	378	381	386	384	36
180°	379	379	379	379	379	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	459.0	459.0	459.0	459.0	459.0
2.5°	460.4	459.5	456.3	459.5	459.0
5°	459.0	458.1	455.0	458.6	458.1
7.5°	455.9	455.4	452.3	455.4	455.0
10°	451.4	451.4	447.8	450.9	450.5
12.5°	445.1	445.5	442.8	445.1	443.7
15°	438.3	438.8	435.6	438.3	436.5
17.5°	429.8	430.7	427.5	429.8	428.4
20°	420.3	421.2	418.1	419.4	419.4
22.5°	409.5	411.3	407.7	409.5	408.2
25°	398.3	399.6	396.9	398.7	396.5
27.5°	386.1	387.9	384.8	386.1	385.2
30°	372.2	374.9	372.2	373.1	372.6
32.5°	359.6	361.8	360.0	360.9	360.5
35°	344.7	347.9	346.5	347.9	347.9
37.5°	330.3	333.0	332.6	334.4	333.9
40°	315.5	319.1	318.6	320.4	321.3
42.5°	299.3	304.2	305.6	307.8	307.8
45°	284.0	288.9	291.2	294.3	294.8
47.5°	268.2	272.7	276.3	280.8	281.7
50°	252.0	257.0	261.9	266.9	268.2
52.5°	234.9	241.2	247.5	252.9	253.8
55°	218.3	225.5	232.7	237.6	239.4
57.5°	201.2	209.7	217.8	223.2	224.6
60°	184.1	193.1	202.1	208.8	210.2
62.5°	167.4	176.4	186.3	194.0	195.8
65°	150.3	160.7	171.5	178.2	180.0
67.5°	134.6	144.5	155.3	163.4	165.6
70°	117.0	127.4	139.1	147.6	150.3
72.5°	99.9	110.7	123.8	133.2	135.0
75°	82.8	94.5	108.9	117.9	120.2
77.5°	66.2	79.7	93.2	103.1	104.9
80°	50.9	64.4	79.7	89.6	91.4
82.5°	36.9	51.3	67.1	76.5	80.1
85°	24.8	39.6	55.4	65.3	68.9
87.5°	15.8	30.2	45.5	55.8	59.0
90°	8.0	28.4	49.1	63.4	68.0
92.5°	17.8	82.1	339.7	126.4	104.7
95°	31.1	92.0	709.4	349.8	225.3
97.5°	44.3	96.8	761.8	594.8	436.9
100°	58.4	106.8	718.3	821.7	636.6
102.5°	74.0	118.8	643.9	1013.4	860.3
105°	90.4	131.9	578.4	1123.7	1048.6
107.5°	105.9	146.2	529.2	1153.6	1160.9
110°	123.1	161.3	496.1	1121.2	1211.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	140.6	176.3	476.0	1056.0	1202.6
115°	156.9	191.8	462.0	983.6	1155.4
117.5°	171.8	207.6	453.3	917.1	1085.6
120°	187.1	223.2	446.9	861.5	1017.7
122.5°	202.6	237.8	441.3	816.2	957.4
125°	215.6	251.8	436.5	779.6	907.8
127.5°	225.9	265.8	433.1	747.6	862.5
130°	235.8	279.6	430.2	715.6	825.9
132.5°	242.9	291.8	428.4	681.3	789.2
135°	251.3	301.7	426.6	648.2	749.3
137.5°	262.0	311.2	426.1	614.0	707.4
140°	270.8	319.3	425.4	582.4	663.6
142.5°	281.5	326.4	425.3	555.0	622.8
145°	292.2	334.0	424.5	531.0	585.9
147.5°	303.1	340.9	423.0	510.6	552.3
150°	313.0	347.0	420.7	494.0	525.8
152.5°	323.7	353.2	417.7	480.6	505.5
155°	332.9	358.1	413.8	467.7	487.9
157.5°	341.3	363.1	410.0	455.4	471.9
160°	349.7	366.8	406.2	443.2	455.8
162.5°	356.6	370.7	401.6	432.2	441.3
165°	363.4	373.4	397.0	421.1	427.6
167.5°	368.0	374.9	392.5	410.8	414.6
170°	372.6	376.8	388.6	400.8	403.1
172.5°	375.7	377.5	384.1	392.8	392.5
175°	377.9	377.9	381.0	385.6	384.1
177.5°	379.5	377.9	378.7	381.0	378.7
180°	378.7	378.7	378.7	378.7	378.7

(END OF REPORT)