

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: P1027967

Luminaire Tested: S125DIP-B375D850UB50-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027967
REPORT IS A COMBINATION OF REPORTS P1002115 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B375D850UB50-4F0-XX-W2A-D4
Description: Define 5 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

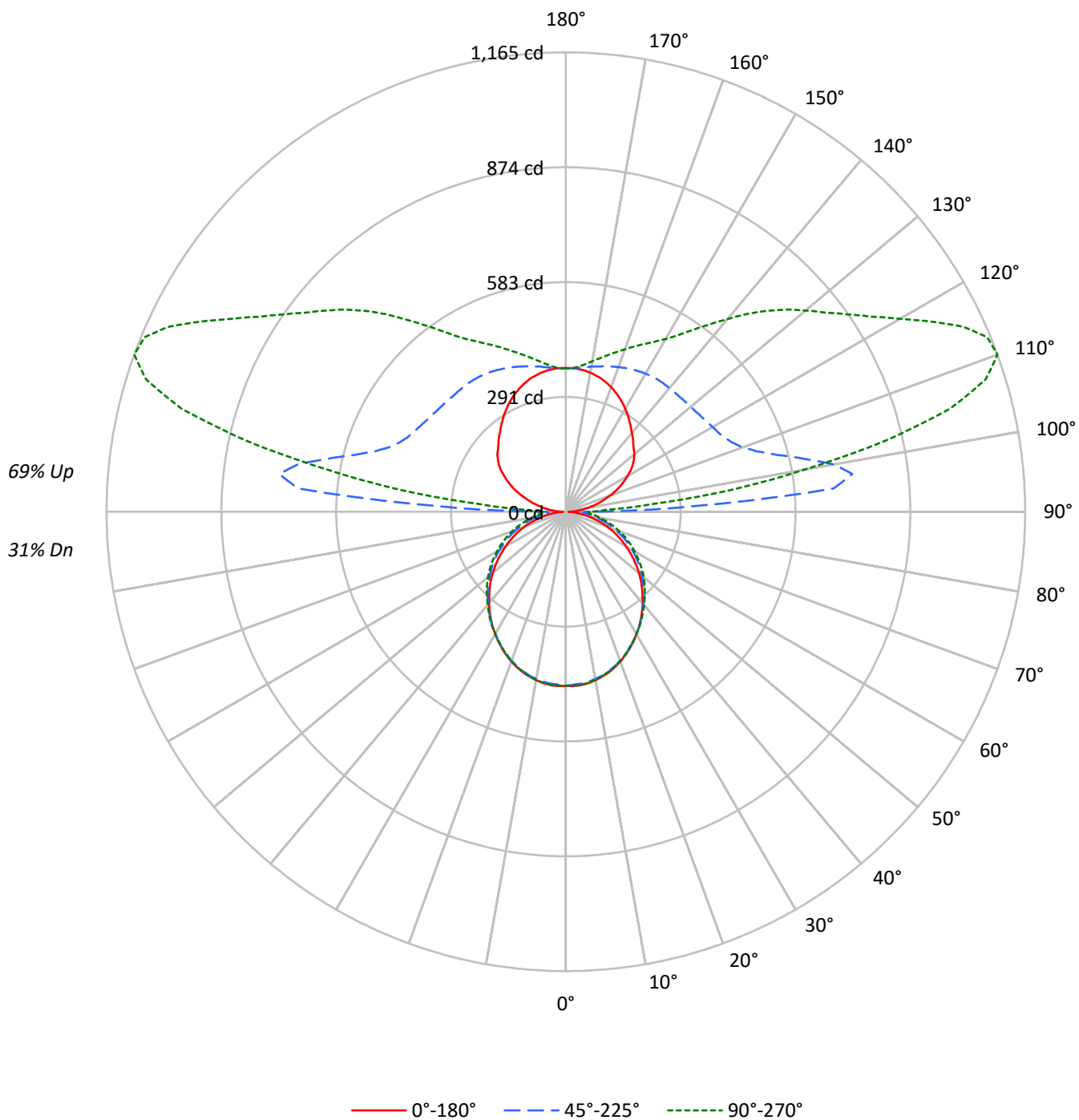
Lumens per Lamp: N/A
Luminaire Lumens: 4109.6 lumens
Efficiency: N/A
Efficacy: 120.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2827	2827	2827
5°	2832	2768	2775
10°	2811	2712	2704
15°	2777	2646	2616
20°	2730	2566	2530
25°	2676	2482	2425
30°	2609	2390	2330
35°	2547	2305	2242
40°	2485	2216	2153
45°	2413	2138	2074
50°	2345	2054	2002
55°	2263	1974	1919
60°	2173	1882	1833
65°	2079	1786	1736
70°	1972	1657	1636
75°	1802	1530	1514
80°	1580	1375	1378
85°	1361	1251	1308

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2413 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.8	1.0
10°-20°	118.5	2.9
20°-30°	176.3	4.3
30°-40°	208.8	5.1
40°-50°	215.8	5.3
50°-60°	198.8	4.8
60°-70°	160.7	3.9
70°-80°	107.6	2.6
80°-90°	57.0	1.4
90°-100°	305.6	7.4
100°-110°	592.8	14.4
110°-120°	547.6	13.3
120°-130°	439.3	10.7
130°-140°	349.8	8.5
140°-150°	261.9	6.4
150°-160°	183.9	4.5
160°-170°	108.4	2.6
170°-180°	35.2	0.9
0°-30°	336.6	8.2
0°-40°	545.3	13.3
0°-60°	960.0	23.4
0°-90°	1285.3	31.3
90°-120°	1445.9	35.2
90°-150°	2496.9	60.8
90°-180°	2824.0	68.7
0°-180°	4109.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	441	441	441	441	441	
5°	441	440	437	441	440	42
15°	421	422	419	421	420	119
25°	383	384	382	383	381	176
35°	331	334	333	334	334	207
45°	273	278	280	283	283	211
55°	210	217	224	228	230	188
65°	144	154	165	171	173	143
75°	80	91	105	113	116	84
85°	24	38	53	63	66	25
90°	8	27	47	61	65	6
95°	30	88	682	336	217	30
105°	87	127	556	1081	1008	92
115°	151	184	444	946	1111	149
125°	207	242	420	750	873	184
135°	242	290	410	623	720	188
145°	281	321	408	511	563	176
155°	320	344	398	450	469	147
165°	350	359	382	405	411	98
175°	364	364	366	371	369	35
180°	364	364	364	364	364	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	441.3	441.3	441.3	441.3	441.3
2.5°	442.6	441.7	438.7	441.7	441.3
5°	441.3	440.4	437.4	440.8	440.4
7.5°	438.2	437.8	434.8	437.8	437.4
10°	433.9	433.9	430.5	433.5	433.1
12.5°	427.9	428.3	425.7	427.9	426.6
15°	421.4	421.8	418.8	421.4	419.6
17.5°	413.2	414.0	411.0	413.2	411.9
20°	404.1	404.9	401.9	403.2	403.2
22.5°	393.7	395.4	392.0	393.7	392.4
25°	382.9	384.2	381.6	383.3	381.1
27.5°	371.2	372.9	369.9	371.2	370.3
30°	357.8	360.4	357.8	358.6	358.2
32.5°	345.7	347.8	346.1	347.0	346.5
35°	331.4	334.4	333.1	334.4	334.4
37.5°	317.5	320.1	319.7	321.4	321.0
40°	303.3	306.7	306.3	308.0	308.9
42.5°	287.7	292.5	293.8	295.9	295.9
45°	273.0	277.7	279.9	282.9	283.4
47.5°	257.8	262.2	265.6	270.0	270.8
50°	242.3	247.0	251.8	256.5	257.8
52.5°	225.8	231.9	237.9	243.1	244.0
55°	209.8	216.7	223.7	228.4	230.2
57.5°	193.4	201.6	209.4	214.6	215.9
60°	176.9	185.6	194.2	200.7	202.0
62.5°	160.9	169.6	179.1	186.5	188.2
65°	144.5	154.4	164.8	171.3	173.0
67.5°	129.4	138.9	149.3	157.0	159.2
70°	112.5	122.4	133.7	141.9	144.5
72.5°	96.0	106.4	119.0	128.1	129.8
75°	79.6	90.9	104.7	113.3	115.5
77.5°	63.6	76.6	89.6	99.1	100.8
80°	48.9	61.9	76.6	86.1	87.8
82.5°	35.5	49.3	64.5	73.5	77.0
85°	23.8	38.1	53.2	62.7	66.2
87.5°	15.1	29.0	43.7	53.6	56.7
90°	7.6	27.4	47.2	60.8	65.4
92.5°	17.1	78.8	326.7	121.5	100.6
95°	29.8	88.5	682.2	336.2	216.7
97.5°	42.6	93.1	732.6	572.0	420.2
100°	56.2	102.6	690.8	790.2	612.1
102.5°	71.1	114.2	619.3	974.5	827.3
105°	86.9	126.8	556.2	1080.6	1008.4
107.5°	101.9	140.6	508.9	1109.4	1116.4
110°	118.3	155.0	477.0	1078.3	1164.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	135.2	169.6	457.7	1015.5	1156.5
115°	150.9	184.4	444.3	945.9	1111.1
117.5°	165.2	199.6	435.8	882.0	1044.0
120°	179.9	214.6	429.7	828.5	978.7
122.5°	194.8	228.7	424.4	784.8	920.7
125°	207.3	242.2	419.7	749.7	873.0
127.5°	217.2	255.7	416.5	718.9	829.4
130°	226.7	269.0	413.7	688.2	794.2
132.5°	233.7	280.6	412.0	655.2	759.0
135°	241.7	290.1	410.3	623.4	720.5
137.5°	252.0	299.2	409.7	590.4	680.2
140°	260.3	307.0	409.2	560.0	638.2
142.5°	270.6	313.9	409.0	533.6	598.9
145°	280.9	321.2	408.3	510.7	563.4
147.5°	291.5	327.8	406.8	491.0	531.1
150°	301.1	333.8	404.6	475.1	505.6
152.5°	311.3	339.6	401.7	462.2	486.1
155°	320.1	344.4	398.0	449.8	469.2
157.5°	328.2	349.2	394.3	438.0	453.8
160°	336.3	352.8	390.6	426.2	438.4
162.5°	342.9	356.5	386.2	415.6	424.4
165°	349.5	359.1	381.8	405.0	411.2
167.5°	353.9	360.6	377.4	395.0	398.7
170°	358.3	362.4	373.8	385.5	387.7
172.5°	361.3	363.1	369.3	377.8	377.4
175°	363.5	363.5	366.4	370.8	369.3
177.5°	364.9	363.5	364.2	366.4	364.2
180°	364.2	364.2	364.2	364.2	364.2

(END OF REPORT)