

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: P1027860

Luminaire Tested: S125DIP-B375D375UB35-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027860
REPORT IS A COMBINATION OF REPORTS P1001976 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B375D375UB35-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

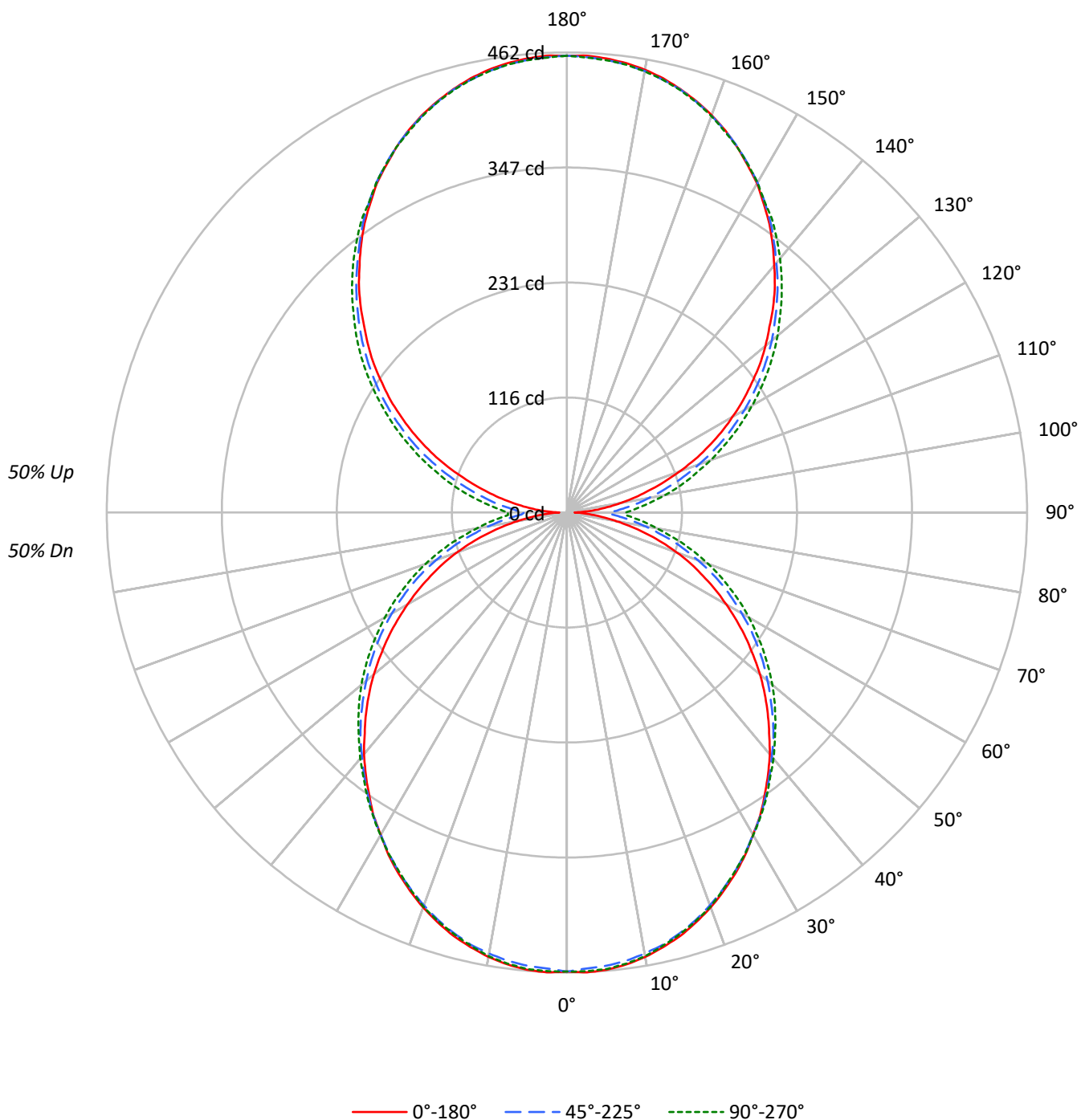
Lumens per Lamp: N/A
Luminaire Lumens: 2709.0 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 22.3
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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	56	56	50
1	97	92	88	84	89	85	82	78	72	69	67	59	58	56	48	47	46	46	46	40
2	88	80	74	68	81	74	68	64	62	58	55	52	49	46	42	40	38	38	38	33
3	80	70	63	57	73	65	58	53	55	50	46	46	42	39	37	34	32	32	32	28
4	73	62	54	48	67	57	50	45	49	43	39	40	36	33	33	30	27	27	27	24
5	67	55	47	41	61	51	44	38	43	38	33	36	32	28	29	26	24	24	24	20
6	62	49	41	35	57	46	38	33	39	33	29	33	28	25	27	23	21	21	21	18
7	57	45	36	31	52	41	34	29	35	30	25	30	25	22	24	21	18	18	18	16
8	53	40	32	27	49	38	30	26	32	26	22	27	23	19	22	19	16	16	16	14
9	49	37	29	24	45	34	27	23	29	24	20	25	21	17	21	17	15	15	15	13
10	46	34	26	22	42	31	25	20	27	22	18	23	19	16	19	16	13	13	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2954	2954	2954
5°	2958	2892	2899
10°	2936	2833	2825
15°	2900	2764	2734
20°	2852	2681	2643
25°	2795	2593	2534
30°	2725	2497	2434
35°	2661	2408	2342
40°	2595	2315	2250
45°	2521	2234	2166
50°	2450	2146	2092
55°	2364	2062	2004
60°	2270	1966	1915
65°	2171	1866	1815
70°	2060	1731	1709
75°	1884	1598	1582
80°	1651	1436	1440
85°	1424	1307	1365

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2521 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.6	1.6
10°-20°	123.8	4.6
20°-30°	184.1	6.8
30°-40°	218.1	8.0
40°-50°	225.5	8.3
50°-60°	207.7	7.7
60°-70°	167.9	6.2
70°-80°	112.3	4.1
80°-90°	58.8	2.2
90°-100°	63.2	2.3
100°-110°	114.7	4.2
110°-120°	169.8	6.3
120°-130°	211.5	7.8
130°-140°	230.7	8.5
140°-150°	223.0	8.2
150°-160°	186.7	6.9
160°-170°	124.1	4.6
170°-180°	43.4	1.6
0°-30°	351.6	13.0
0°-40°	569.7	21.0
0°-60°	1002.8	37.0
0°-90°	1341.8	49.5
90°-120°	347.8	12.8
90°-150°	1013.0	37.4
90°-180°	1367.0	50.5
0°-180°	2709.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	461	461	461	461	461	
5°	461	460	457	460	460	44
15°	440	441	438	440	438	124
25°	400	401	399	400	398	184
35°	346	349	348	349	349	217
45°	285	290	292	296	296	220
55°	219	226	234	239	240	196
65°	151	161	172	179	181	150
75°	83	95	109	118	121	88
85°	25	40	56	66	69	26
90°	8	25	43	55	59	7
95°	29	42	60	73	77	29
105°	86	94	110	121	126	91
115°	157	161	174	181	184	155
125°	226	228	237	244	246	203
135°	293	295	298	304	305	226
145°	354	355	356	359	359	221
155°	405	405	405	407	405	186
165°	440	440	440	441	439	124
175°	458	456	456	458	456	43
180°	459	459	459	459	459	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	461.0	461.0	461.0	461.0	461.0
2.5°	462.3	461.4	458.3	461.4	461.0
5°	461.0	460.1	456.9	460.5	460.1
7.5°	457.8	457.4	454.2	457.4	456.9
10°	453.3	453.3	449.7	452.8	452.4
12.5°	447.0	447.4	444.7	447.0	445.6
15°	440.2	440.6	437.5	440.2	438.4
17.5°	431.6	432.5	429.3	431.6	430.2
20°	422.1	423.0	419.8	421.2	421.2
22.5°	411.3	413.1	409.4	411.3	409.9
25°	400.0	401.3	398.6	400.4	398.2
27.5°	387.8	389.6	386.4	387.8	386.9
30°	373.7	376.5	373.7	374.6	374.2
32.5°	361.1	363.4	361.5	362.4	362.0
35°	346.2	349.3	348.0	349.3	349.3
37.5°	331.7	334.4	334.0	335.8	335.3
40°	316.8	320.4	320.0	321.8	322.7
42.5°	300.5	305.5	306.9	309.1	309.1
45°	285.2	290.1	292.4	295.6	296.0
47.5°	269.4	273.9	277.5	282.0	282.9
50°	253.1	258.1	263.0	268.0	269.4
52.5°	235.9	242.2	248.6	254.0	254.9
55°	219.2	226.4	233.6	238.6	240.4
57.5°	202.0	210.6	218.7	224.2	225.5
60°	184.8	193.9	202.9	209.7	211.1
62.5°	168.1	177.2	187.1	194.8	196.6
65°	150.9	161.3	172.2	179.0	180.8
67.5°	135.1	145.1	155.9	164.1	166.3
70°	117.5	127.9	139.6	148.2	150.9
72.5°	100.3	111.2	124.3	133.8	135.6
75°	83.2	94.9	109.4	118.4	120.7
77.5°	66.4	80.0	93.5	103.5	105.3
80°	51.1	64.6	80.0	89.9	91.7
82.5°	37.1	51.5	67.3	76.8	80.4
85°	24.9	39.8	55.6	65.5	69.1
87.5°	15.8	30.3	45.6	56.0	59.2
90°	7.6	24.9	42.8	55.0	59.2
92.5°	17.0	31.9	51.0	63.4	67.3
95°	29.1	41.5	60.5	72.9	76.8
97.5°	41.1	52.4	72.3	83.9	87.4
100°	55.0	64.5	83.5	96.2	99.6
102.5°	69.8	80.2	96.0	108.7	112.4
105°	85.5	94.5	110.2	121.4	125.6
107.5°	102.5	110.6	125.5	135.6	138.3
110°	120.3	127.5	141.1	150.8	153.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	138.9	143.6	157.2	165.8	168.1
115°	156.6	161.2	173.6	181.4	183.8
117.5°	174.7	177.3	189.3	197.4	199.1
120°	191.9	194.9	205.7	213.4	214.7
122.5°	209.9	210.8	221.8	228.6	230.2
125°	226.3	228.1	237.4	243.9	245.9
127.5°	244.2	244.7	252.8	259.2	261.2
130°	260.2	261.5	268.5	274.6	276.0
132.5°	275.8	279.0	283.1	289.2	289.9
135°	292.9	294.7	298.1	304.0	304.9
137.5°	309.0	310.7	313.2	319.0	319.0
140°	323.9	325.7	327.2	332.9	332.9
142.5°	339.3	340.2	341.6	346.1	346.1
145°	354.3	355.2	356.3	358.6	359.3
147.5°	367.7	368.8	369.5	371.5	369.5
150°	381.6	381.3	382.7	382.7	382.5
152.5°	393.0	393.8	394.1	395.2	393.8
155°	404.8	404.8	405.2	406.6	404.8
157.5°	415.5	414.8	415.2	416.6	414.1
160°	424.8	423.7	424.1	425.5	423.7
162.5°	433.0	432.3	432.3	434.1	432.0
165°	440.2	439.5	439.8	441.2	439.1
167.5°	446.6	445.2	445.2	447.3	445.2
170°	451.6	450.2	450.2	452.3	449.8
172.5°	455.2	453.7	453.7	455.9	453.7
175°	457.7	456.2	456.2	458.4	455.9
177.5°	459.4	458.0	457.7	459.8	457.3
180°	458.7	458.7	458.7	458.7	458.7

(END OF REPORT)