

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: P1027816

Luminaire Tested: S125DIP-B375D1270UB35-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027816
REPORT IS A COMBINATION OF REPORTS P1001917 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B375D1270UB35-4F0-XX-W2A-D4
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

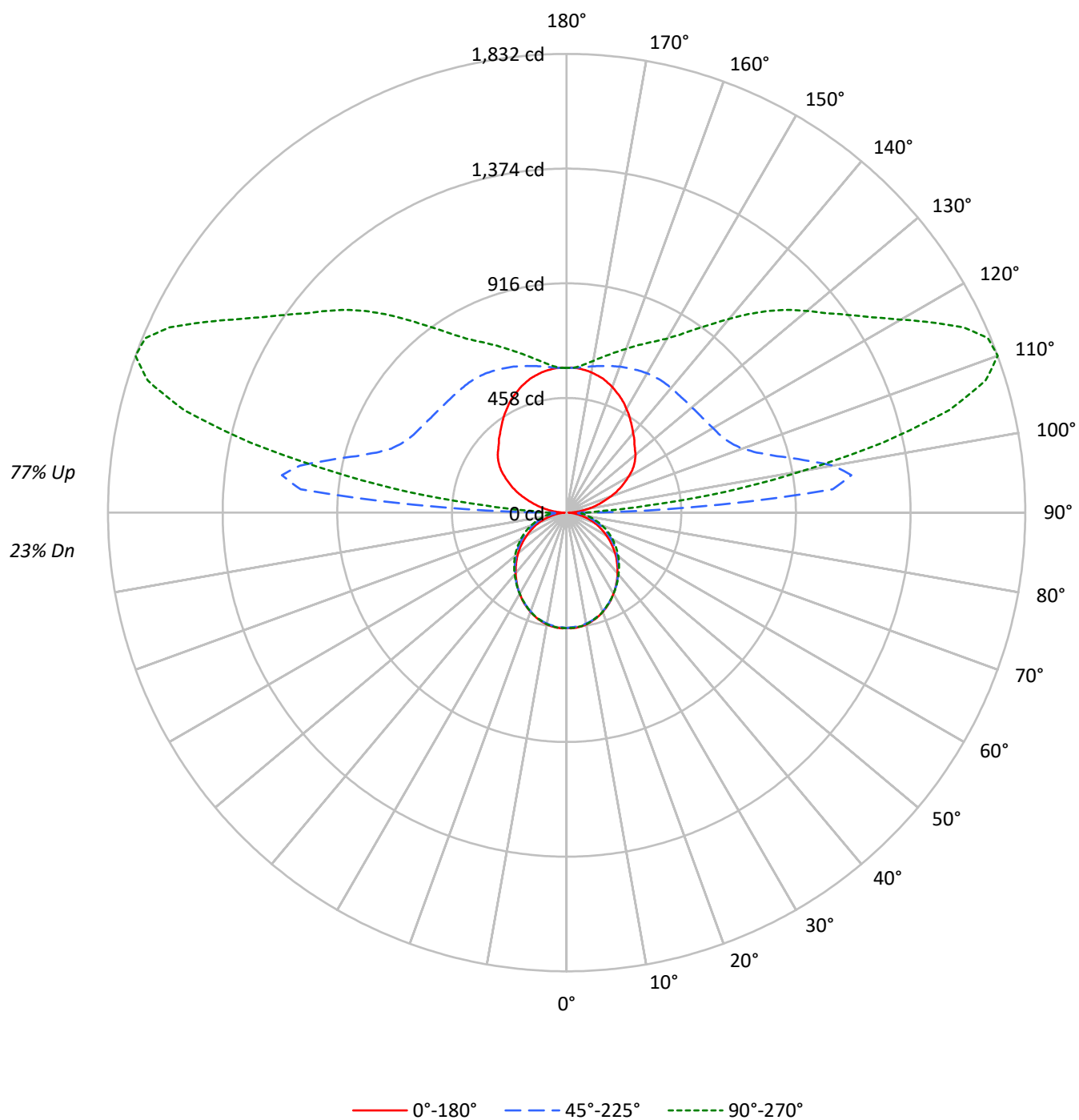
Lumens per Lamp: N/A
Luminaire Lumens: 5783.9 lumens
Efficiency: N/A
Efficacy: 120.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 48
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	50	30	10
RCR																				
0	101	101	101	101	89	89	89	89	68	68	68	49	49	49	32	32	32	32	32	23
1	91	87	83	80	81	77	74	71	59	57	55	43	41	40	27	27	26	26	26	19
2	83	76	70	65	73	67	62	58	52	48	45	37	35	33	24	23	21	21	21	16
3	76	66	59	54	67	59	53	48	45	41	38	33	30	28	21	19	18	18	18	13
4	69	59	51	45	61	52	46	41	40	36	32	29	26	24	19	17	15	15	15	11
5	63	52	44	38	56	46	40	35	36	31	27	26	23	20	17	15	13	13	13	10
6	58	46	39	33	51	41	35	30	32	27	24	23	20	18	15	13	12	12	12	8
7	54	42	34	29	47	37	31	26	29	24	21	21	18	15	14	12	10	10	10	7
8	50	38	30	25	44	34	27	23	26	22	18	19	16	14	13	11	9	9	9	7
9	46	34	27	22	41	31	24	20	24	19	16	18	14	12	12	10	8	8	8	6
10	43	31	24	20	38	28	22	18	22	17	14	16	13	11	11	9	7	7	7	5

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	0.8
10°-20°	123.8	2.1
20°-30°	184.1	3.2
30°-40°	218.1	3.8
40°-50°	225.5	3.9
50°-60°	207.7	3.6
60°-70°	167.9	2.9
70°-80°	112.3	1.9
80°-90°	60.4	1.0
90°-100°	468.3	8.1
100°-110°	928.9	16.1
110°-120°	861.3	14.9
120°-130°	693.0	12.0
130°-140°	553.5	9.6
140°-150°	415.5	7.2
150°-160°	292.0	5.0
160°-170°	172.1	3.0
170°-180°	56.0	1.0
0°-30°	351.6	6.1
0°-40°	569.7	9.8
0°-60°	1002.8	17.3
0°-90°	1343.4	23.2
90°-120°	2258.5	39.0
90°-150°	3920.5	67.8
90°-180°	4441.0	76.8
0°-180°	5783.9	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	32	56	72	77	8
95°	44	131	1066	512	320	45
105°	136	196	870	1699	1582	143
115°	238	290	696	1489	1750	235
125°	328	384	661	1182	1376	292
135°	383	461	650	985	1138	298
145°	446	510	648	810	893	279
155°	508	547	632	714	745	234
165°	555	570	606	643	653	156
175°	577	577	582	589	587	55
180°	578	578	578	578	578	

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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°	8.4	32.2	55.8	72.0	77.4
92.5°	23.8	115.0	500.6	169.4	134.7
95°	44.4	131.3	1066.3	511.7	320.2
97.5°	64.9	139.4	1147.3	887.4	644.4
100°	86.6	155.6	1082.0	1235.0	950.8
102.5°	110.6	174.6	969.4	1529.0	1293.8
105°	135.9	195.6	870.4	1698.7	1582.3
107.5°	159.9	218.0	796.2	1745.2	1755.0
110°	186.3	241.8	746.6	1697.0	1832.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	213.1	265.5	716.8	1598.5	1820.9
115°	238.3	289.9	696.3	1488.8	1749.8
117.5°	261.2	314.7	684.0	1388.6	1644.3
120°	284.5	338.9	675.2	1304.6	1541.7
122.5°	308.5	362.1	667.6	1236.4	1450.7
125°	328.3	383.9	661.2	1181.5	1376.2
127.5°	344.3	405.5	657.0	1133.8	1307.9
130°	359.4	426.6	653.3	1085.9	1253.2
132.5°	370.6	445.2	651.5	1034.6	1198.5
135°	383.4	460.6	649.7	985.0	1138.4
137.5°	399.7	475.2	649.6	933.6	1075.4
140°	413.3	487.4	649.3	886.4	1009.5
142.5°	429.7	498.6	649.6	845.5	948.2
145°	446.0	510.2	648.4	809.9	892.8
147.5°	463.0	520.8	646.1	779.4	842.6
150°	478.2	530.0	642.6	754.6	802.9
152.5°	494.5	539.4	637.9	734.2	772.0
155°	508.5	547.0	632.1	714.3	745.2
157.5°	521.3	554.6	626.3	695.6	720.7
160°	534.1	560.4	620.4	677.0	696.2
162.5°	544.6	566.2	613.4	660.1	674.1
165°	555.1	570.3	606.4	643.2	653.1
167.5°	562.1	572.6	599.4	627.4	633.3
170°	569.1	575.6	593.6	612.2	615.8
172.5°	573.8	576.7	586.6	600.0	599.4
175°	577.3	577.3	581.9	588.9	586.6
177.5°	579.6	577.3	578.4	581.9	578.4
180°	578.4	578.4	578.4	578.4	578.4

(END OF REPORT)