

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: P1027789

Luminaire Tested: S125DIP-B375D1090UB50-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027789
REPORT IS A COMBINATION OF REPORTS P1001875 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B375D1090UB50-4F0-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

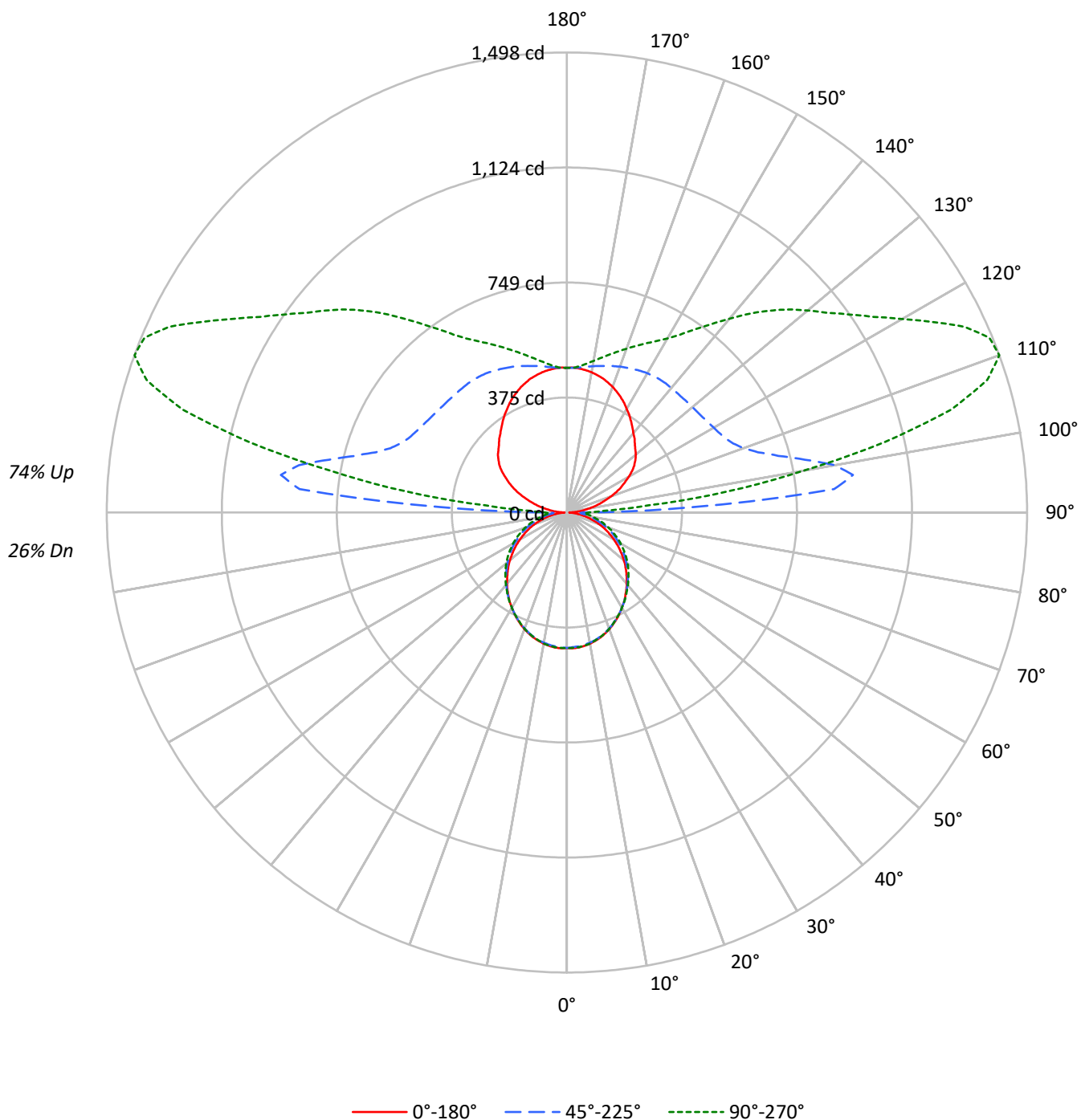
Lumens per Lamp: N/A
Luminaire Lumens: 4916.3 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 41.5
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	101	101	101	101	91	91	91	91	70	70	70	51	51	51	34	34	34
1	92	88	84	80	82	78	75	72	61	58	56	44	43	42	30	29	28
2	84	76	70	65	74	68	63	59	53	49	46	39	37	35	26	24	23
3	76	67	60	54	68	60	54	49	46	42	39	34	31	29	23	21	20
4	69	59	51	45	62	53	46	41	41	36	33	30	27	25	20	18	17
5	64	52	44	39	56	47	40	35	37	32	28	27	24	21	18	16	15
6	58	47	39	33	52	42	35	30	33	28	24	24	21	18	16	14	13
7	54	42	34	29	48	38	31	26	30	25	21	22	19	16	15	13	11
8	50	38	30	25	44	34	28	23	27	22	19	20	17	14	14	12	10
9	46	34	27	22	41	31	25	20	25	20	17	18	15	13	13	10	9
10	43	31	24	20	38	28	22	18	22	18	15	17	14	11	12	10	8

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	0.8
10°-20°	118.5	2.4
20°-30°	176.3	3.6
30°-40°	208.8	4.2
40°-50°	215.8	4.4
50°-60°	198.8	4.0
60°-70°	160.7	3.3
70°-80°	107.6	2.2
80°-90°	57.5	1.2
90°-100°	386.3	7.9
100°-110°	760.3	15.5
110°-120°	704.1	14.3
120°-130°	565.9	11.5
130°-140°	451.5	9.2
140°-150°	338.7	6.9
150°-160°	237.9	4.8
160°-170°	140.2	2.9
170°-180°	45.6	0.9
0°-30°	336.6	6.8
0°-40°	545.3	11.1
0°-60°	960.0	19.5
0°-90°	1285.7	26.2
90°-120°	1850.6	37.6
90°-150°	3206.8	65.2
90°-180°	3631.0	73.9
0°-180°	4916.3	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	29	51	65	70	7
95°	37	110	874	423	267	37
105°	111	161	713	1389	1295	117
115°	195	237	570	1217	1430	192
125°	268	313	540	965	1124	238
135°	313	375	530	804	929	243
145°	363	416	528	660	728	228
155°	414	446	515	582	607	191
165°	452	465	494	524	532	127
175°	470	470	474	480	478	45
180°	471	471	471	471	471	

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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°	7.9	29.4	50.7	65.4	70.4
92.5°	20.4	96.5	412.9	144.5	116.6
95°	37.0	109.6	873.5	423.1	267.4
97.5°	53.7	115.8	939.3	728.8	531.4
100°	71.3	128.8	885.8	1011.8	780.6
102.5°	90.8	144.1	793.8	1250.9	1059.7
105°	111.3	160.9	712.7	1388.9	1294.6
107.5°	130.8	179.1	652.1	1426.6	1434.9
110°	152.2	198.2	611.4	1387.0	1497.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	174.0	217.4	586.9	1306.4	1488.0
115°	194.6	237.0	569.9	1216.8	1429.9
117.5°	213.2	257.1	559.6	1134.8	1343.5
120°	232.2	276.7	552.2	1066.1	1259.7
122.5°	251.6	295.3	545.7	1010.2	1185.3
125°	267.8	313.0	540.2	965.2	1124.1
127.5°	280.7	330.6	536.5	926.0	1068.3
130°	293.0	347.8	533.3	886.8	1023.3
132.5°	302.1	362.9	531.6	844.6	978.5
135°	312.6	375.2	529.9	804.0	929.1
137.5°	325.9	387.2	529.6	761.9	877.6
140°	336.8	397.2	529.2	723.1	823.7
142.5°	350.1	406.2	529.3	689.5	773.4
145°	363.4	415.8	528.3	660.2	728.0
147.5°	377.3	424.3	526.4	635.2	686.8
150°	389.6	431.9	523.6	614.8	654.2
152.5°	402.9	439.5	519.8	598.2	629.1
155°	414.3	445.6	515.0	582.0	607.2
157.5°	424.8	451.8	510.3	566.8	587.3
160°	435.2	456.6	505.5	551.6	567.3
162.5°	443.8	461.4	499.8	537.8	549.2
165°	452.3	464.6	494.1	524.0	532.1
167.5°	458.0	466.6	488.4	511.2	516.0
170°	463.7	469.0	483.7	498.8	501.7
172.5°	467.5	469.9	478.0	488.9	488.4
175°	470.4	470.4	474.2	479.9	478.0
177.5°	472.3	470.4	471.3	474.2	471.3
180°	471.3	471.3	471.3	471.3	471.3

(END OF REPORT)