

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: P1027762

Luminaire Tested: S125DIP-B375D1090UB30-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027762
REPORT IS A COMBINATION OF REPORTS P1001848 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B375D1090UB30-4F0-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

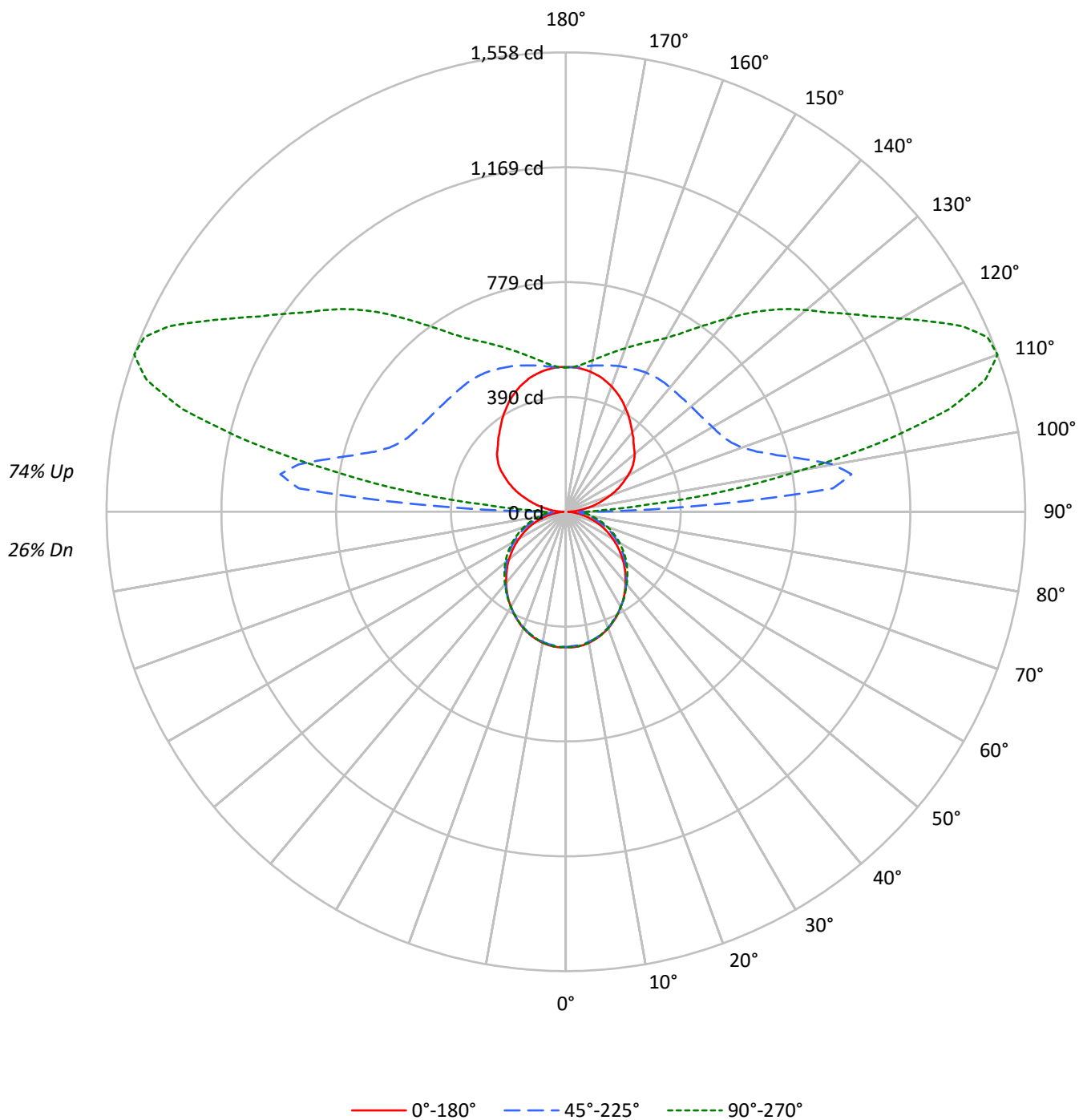
Lumens per Lamp: N/A
Luminaire Lumens: 5113.7 lumens
Efficiency: N/A
Efficacy: 123.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	50	30	10
RCR																				
0	101	101	101	101	91	91	91	91	70	70	70	51	51	51	34	34	34			26
1	92	88	84	80	82	78	75	72	61	58	56	44	43	42	30	29	28			21
2	84	76	70	65	74	68	63	59	53	49	46	39	37	35	26	24	23			17
3	76	67	60	54	68	60	54	49	46	42	39	34	31	29	23	21	20			15
4	69	59	51	45	62	53	46	41	41	36	33	30	27	25	20	18	17			12
5	64	52	44	39	56	47	40	35	37	32	28	27	24	21	18	16	15			11
6	58	47	39	33	52	42	35	30	33	28	24	24	21	18	16	14	13			9
7	54	42	34	29	48	38	31	26	30	25	21	22	19	16	15	13	11			8
8	50	38	30	25	44	34	28	23	27	22	19	20	17	14	14	12	10			7
9	46	34	27	22	41	31	25	20	25	20	17	18	15	13	13	10	9			7
10	43	31	24	20	38	28	22	18	22	18	15	17	14	11	12	10	8			6

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	0.8
10°-20°	123.3	2.4
20°-30°	183.4	3.6
30°-40°	217.2	4.2
40°-50°	224.5	4.4
50°-60°	206.8	4.0
60°-70°	167.2	3.3
70°-80°	111.9	2.2
80°-90°	59.8	1.2
90°-100°	401.8	7.9
100°-110°	790.8	15.5
110°-120°	732.3	14.3
120°-130°	588.7	11.5
130°-140°	469.6	9.2
140°-150°	352.3	6.9
150°-160°	247.5	4.8
160°-170°	145.9	2.9
170°-180°	47.4	0.9
0°-30°	350.1	6.8
0°-40°	567.3	11.1
0°-60°	998.6	19.5
0°-90°	1337.5	26.2
90°-120°	1924.9	37.6
90°-150°	3335.5	65.2
90°-180°	3776.0	73.8
0°-180°	5113.7	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	30	53	68	73	7
95°	38	114	909	440	278	39
105°	116	168	741	1445	1346	122
115°	202	247	593	1266	1487	199
125°	278	326	562	1004	1169	247
135°	325	390	551	836	966	252
145°	378	432	550	687	757	237
155°	431	464	536	605	632	198
165°	470	483	514	545	554	133
175°	489	489	493	499	497	46
180°	490	490	490	490	490	

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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°	8.2	30.5	52.7	68.0	73.1
92.5°	21.1	100.4	429.5	150.2	121.3
95°	38.5	114.0	908.6	440.1	278.2
97.5°	55.8	120.5	977.0	758.0	552.7
100°	74.2	134.0	921.3	1052.4	811.9
102.5°	94.4	150.0	825.6	1301.1	1102.2
105°	115.8	167.5	741.4	1444.6	1346.5
107.5°	136.0	186.4	678.3	1483.8	1492.5
110°	158.4	206.2	636.0	1442.6	1557.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	181.1	226.2	610.4	1358.8	1547.7
115°	202.3	246.6	592.8	1265.6	1487.2
117.5°	221.7	267.4	582.1	1180.3	1397.4
120°	241.5	287.8	574.4	1108.8	1310.1
122.5°	261.7	307.3	567.7	1050.8	1232.8
125°	278.5	325.5	561.9	1004.0	1169.3
127.5°	292.0	343.8	558.1	963.1	1111.1
130°	304.8	361.6	554.7	922.3	1064.4
132.5°	314.2	377.4	552.9	878.4	1017.7
135°	325.1	390.4	551.1	836.2	966.4
137.5°	338.9	402.8	550.8	792.4	912.9
140°	350.4	413.2	550.4	752.2	856.7
142.5°	364.2	422.6	550.5	717.2	804.5
145°	378.1	432.4	549.5	686.8	757.2
147.5°	392.4	441.3	547.5	660.6	714.4
150°	405.2	449.2	544.6	639.5	680.5
152.5°	419.1	457.1	540.6	622.2	654.3
155°	430.9	463.6	535.7	605.3	631.6
157.5°	441.8	470.0	530.7	589.6	610.8
160°	452.7	475.0	525.8	573.8	590.0
162.5°	461.6	479.8	519.9	559.4	571.3
165°	470.5	483.3	513.9	545.0	553.5
167.5°	476.4	485.3	508.0	531.8	536.7
170°	482.3	487.8	503.1	518.9	521.8
172.5°	486.3	488.7	497.1	508.5	508.0
175°	489.2	489.2	493.2	499.1	497.1
177.5°	491.2	489.2	490.2	493.2	490.2
180°	490.2	490.2	490.2	490.2	490.2

(END OF REPORT)