

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: P1027787

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

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027787
REPORT IS A COMBINATION OF REPORTS P1001873 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-D
Description: Define 5 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

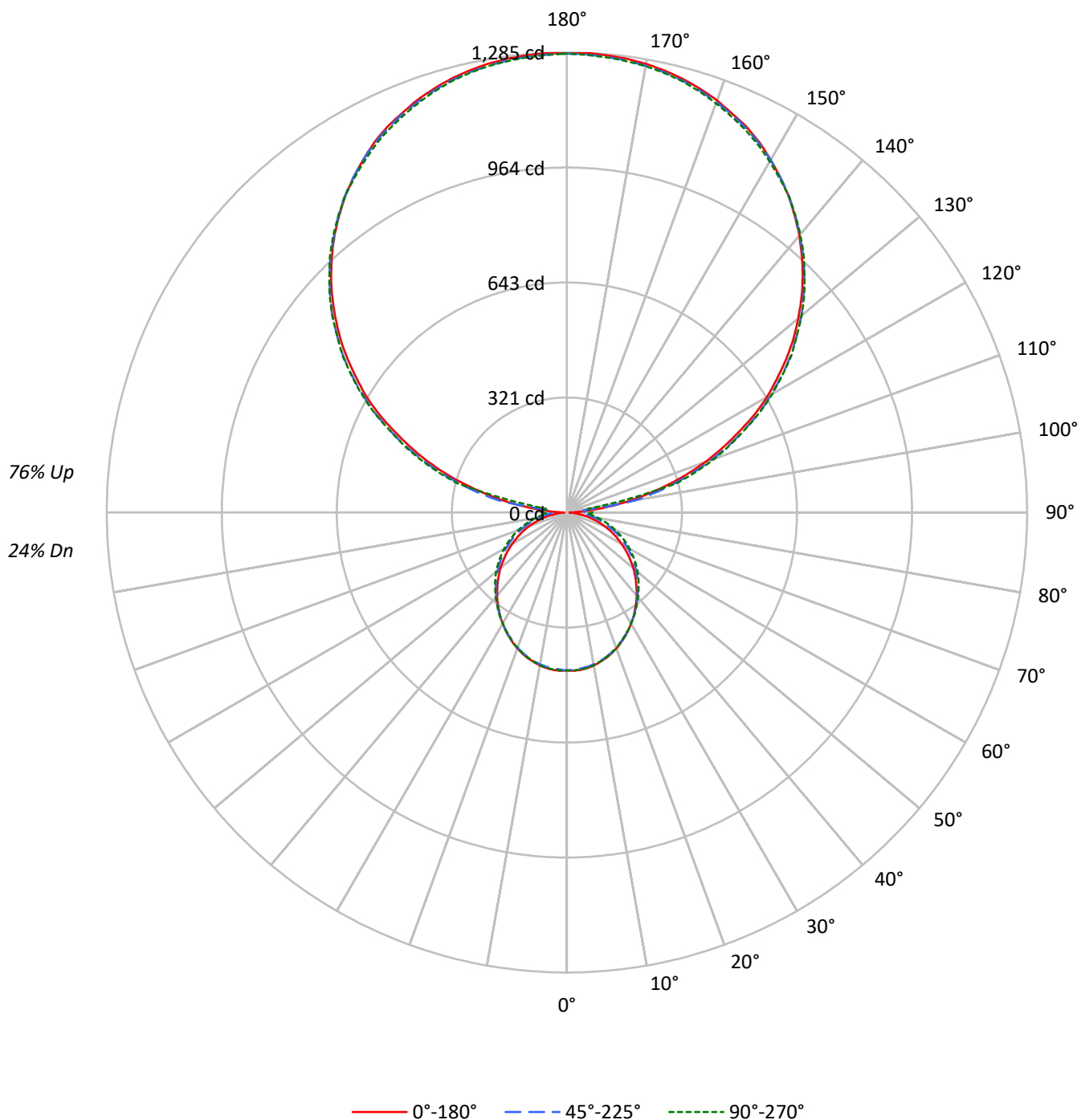
Lumens per Lamp: N/A
Luminaire Lumens: 5307.1 lumens
Efficiency: N/A
Efficacy: 127.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	90	90	90	90	69	69	69	50	50	50	32	32	32			24
1	92	87	83	80	81	78	75	72	60	58	56	43	42	41	28	27	27			20
2	83	76	70	65	74	68	63	58	52	49	46	38	36	34	24	23	22			16
3	76	67	59	54	67	59	53	49	46	42	38	33	31	28	22	20	19			14
4	69	59	51	45	61	52	46	41	41	36	32	29	26	24	19	17	16			12
5	63	52	44	38	56	47	40	35	36	31	28	26	23	21	17	15	14			10
6	58	47	39	33	51	42	35	30	32	27	24	24	20	18	16	14	12			9
7	54	42	34	29	47	37	31	26	29	24	21	21	18	16	14	12	11			8
8	50	38	30	25	44	34	27	23	26	22	18	19	16	14	13	11	9			7
9	46	34	27	22	41	31	25	20	24	20	16	18	15	12	12	10	8			6
10	43	31	24	20	38	28	22	18	22	18	14	16	13	11	11	9	8			6

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	2.2
20°-30°	176.3	3.3
30°-40°	208.8	3.9
40°-50°	215.8	4.1
50°-60°	198.8	3.7
60°-70°	160.7	3.0
70°-80°	107.6	2.0
80°-90°	57.5	1.1
90°-100°	74.8	1.4
100°-110°	312.4	5.9
110°-120°	536.5	10.1
120°-130°	677.6	12.8
130°-140°	723.1	13.6
140°-150°	675.9	12.7
150°-160°	546.1	10.3
160°-170°	353.2	6.7
170°-180°	121.8	2.3
0°-30°	336.6	6.3
0°-40°	545.3	10.3
0°-60°	960.0	18.1
0°-90°	1285.7	24.2
90°-120°	923.8	17.4
90°-150°	3000.3	56.5
90°-180°	4021.0	75.8
0°-180°	5307.1	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	71	8
95°	60	68	47	61	64	71
105°	283	294	307	316	318	300
115°	527	535	547	551	548	523
125°	748	754	763	766	765	668
135°	931	936	938	941	938	718
145°	1079	1080	1080	1084	1080	675
155°	1188	1182	1184	1187	1179	547
165°	1254	1248	1249	1254	1247	354
175°	1282	1276	1277	1285	1276	122
180°	1282	1282	1282	1282	1282	

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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	71.3
92.5°	24.2	28.1	48.9	63.3	67.2
95°	59.8	68.2	46.8	61.1	64.1
97.5°	106.9	123.0	47.0	57.9	62.0
100°	163.5	175.4	193.1	60.6	59.4
102.5°	221.0	233.0	248.4	258.9	181.7
105°	283.3	294.0	307.0	315.6	317.8
107.5°	347.5	353.5	368.0	377.6	376.4
110°	409.7	414.9	429.0	434.4	438.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	468.7	475.4	488.1	492.1	493.2
115°	527.2	534.9	547.2	551.2	548.1
117.5°	588.6	590.7	605.3	607.0	608.1
120°	645.6	645.9	658.7	664.2	662.0
122.5°	695.5	700.7	711.2	716.2	713.1
125°	747.7	754.0	762.7	765.8	765.0
127.5°	797.7	802.0	808.4	813.0	808.0
130°	843.3	847.7	854.6	857.9	855.2
132.5°	888.5	894.2	895.7	901.7	898.7
135°	931.3	936.5	937.7	941.4	937.8
137.5°	971.2	976.4	976.3	981.5	978.5
140°	1009.7	1011.6	1011.1	1017.7	1013.8
142.5°	1044.8	1045.4	1047.3	1051.2	1047.2
145°	1079.0	1080.5	1080.5	1083.7	1079.7
147.5°	1109.1	1109.1	1110.0	1111.9	1106.0
150°	1137.6	1135.7	1137.6	1139.5	1132.3
152.5°	1165.1	1160.4	1162.3	1164.2	1157.5
155°	1187.9	1182.2	1184.1	1187.0	1179.4
157.5°	1206.0	1203.1	1203.1	1206.0	1198.4
160°	1225.0	1219.3	1220.2	1224.1	1216.4
162.5°	1240.2	1234.5	1235.5	1241.2	1232.6
165°	1253.5	1247.8	1248.8	1254.5	1246.9
167.5°	1264.0	1258.3	1259.2	1265.9	1257.3
170°	1272.5	1265.9	1266.8	1274.4	1265.9
172.5°	1278.2	1271.6	1273.5	1280.1	1271.6
175°	1282.0	1276.3	1277.3	1284.9	1276.3
177.5°	1284.9	1279.2	1280.1	1286.8	1279.2
180°	1282.0	1282.0	1282.0	1282.0	1282.0

(END OF REPORT)