

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: P1027783

Luminaire Tested: S125DIP-B375D1090UB40-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027783
REPORT IS A COMBINATION OF REPORTS P1001869 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B375D1090UB40-4F0-XX-W2A-F4
Description: Define 5 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

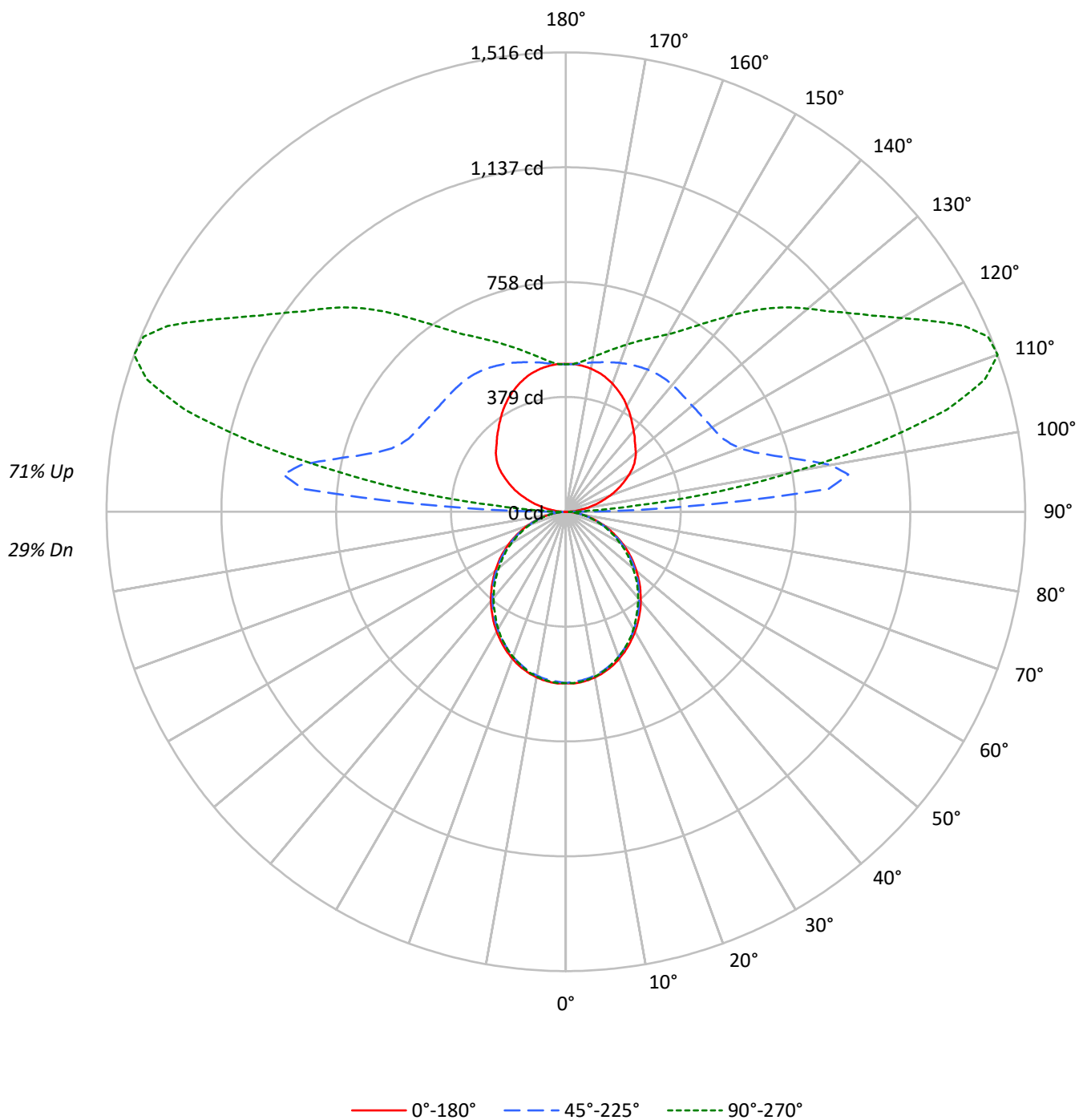
Lumens per Lamp: N/A
Luminaire Lumens: 5142.5 lumens
Efficiency: N/A
Efficacy: 123.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	102	102	102	102	91	91	91	91	71	71	71	53	53	53	37	37	37
1	93	89	85	82	83	80	76	74	62	60	58	47	45	44	32	31	31
2	85	77	72	67	75	70	65	60	55	51	48	41	39	37	28	27	26
3	77	68	61	55	69	61	55	50	48	44	40	36	33	31	25	23	22
4	70	60	52	47	63	54	48	42	43	38	34	32	29	27	22	20	19
5	65	53	46	40	58	48	41	36	38	33	30	29	25	23	20	18	16
6	59	48	40	34	53	43	36	31	34	29	26	26	23	20	18	16	14
7	55	43	35	30	49	39	32	27	31	26	22	24	20	18	17	14	13
8	51	39	31	26	45	35	29	24	28	23	20	21	18	16	15	13	11
9	47	35	28	23	42	32	26	21	26	21	18	20	16	14	14	12	10
10	44	32	25	21	39	29	23	19	24	19	16	18	15	12	13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3624	3624	3624
5°	3624	3540	3546
10°	3594	3458	3447
15°	3547	3361	3331
20°	3482	3249	3198
25°	3414	3126	3055
30°	3331	2998	2904
35°	3243	2864	2736
40°	3152	2722	2586
45°	3053	2585	2426
50°	2945	2427	2241
55°	2838	2255	2070
60°	2709	2073	1872
65°	2555	1862	1666
70°	2400	1620	1429
75°	2137	1334	1155
80°	1823	996	849
85°	1407	590	468

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 3053 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.4	1.0
10°-20°	150.7	2.9
20°-30°	222.5	4.3
30°-40°	259.6	5.0
40°-50°	260.8	5.1
50°-60°	228.9	4.5
60°-70°	170.5	3.3
70°-80°	97.4	1.9
80°-90°	30.1	0.6
90°-100°	367.0	7.1
100°-110°	762.4	14.8
110°-120°	712.1	13.8
120°-130°	576.2	11.2
130°-140°	463.0	9.0
140°-150°	349.5	6.8
150°-160°	246.1	4.8
160°-170°	145.0	2.8
170°-180°	47.2	0.9
0°-30°	426.7	8.3
0°-40°	686.3	13.3
0°-60°	1176.0	22.9
0°-90°	1474.0	28.7
90°-120°	1841.6	35.8
90°-150°	3230.3	62.8
90°-180°	3669.0	71.3
0°-180°	5142.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	566	566	566	566	566	
5°	565	564	559	563	563	54
15°	538	537	532	534	534	152
25°	489	486	480	481	480	225
35°	422	420	414	412	408	264
45°	345	344	338	333	332	266
55°	263	262	256	252	248	235
65°	178	177	172	168	166	176
75°	94	94	91	90	88	100
85°	25	25	25	25	24	27
90°	1	9	16	21	23	4
95°	32	96	871	395	231	34
105°	111	155	712	1403	1302	117
115°	198	239	572	1233	1450	195
125°	275	322	548	981	1143	244
135°	322	388	544	822	949	250
145°	375	430	546	681	749	235
155°	428	461	533	602	628	197
165°	468	481	511	542	550	132
175°	486	486	490	496	494	46
180°	487	487	487	487	487	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	565.6	565.6	565.6	565.6	565.6
2.5°	567.3	566.0	561.5	566.0	565.6
5°	564.7	563.8	559.3	563.3	562.9
7.5°	560.6	559.7	554.8	558.8	558.4
10°	554.8	553.9	549.0	552.6	552.1
12.5°	547.7	545.9	541.4	544.1	544.1
15°	538.3	536.9	532.0	534.2	534.2
17.5°	528.4	526.2	521.3	523.9	521.7
20°	515.4	514.5	508.7	511.9	509.6
22.5°	502.5	500.7	495.3	497.1	495.8
25°	488.6	486.4	480.5	481.4	480.1
27.5°	472.5	471.1	465.3	465.8	464.4
30°	456.8	455.5	448.8	447.9	446.5
32.5°	439.8	437.6	431.8	430.0	427.3
35°	421.9	420.1	413.9	411.6	408.1
37.5°	403.6	401.3	395.5	392.4	390.2
40°	384.8	382.6	376.3	372.3	370.9
42.5°	364.7	362.9	356.6	353.0	350.8
45°	345.4	343.6	338.3	332.9	331.5
47.5°	324.4	324.8	318.1	312.8	309.6
50°	304.3	302.9	297.5	291.7	288.6
52.5°	283.7	282.8	277.0	272.0	268.5
55°	263.1	261.7	255.5	251.5	248.3
57.5°	241.2	240.7	235.3	230.0	228.6
60°	220.6	218.8	213.9	209.4	206.3
62.5°	199.1	197.8	193.7	188.8	186.6
65°	177.6	176.7	171.8	167.8	166.0
67.5°	156.6	154.8	151.2	147.7	146.8
70°	136.9	134.7	130.7	128.0	126.2
72.5°	115.4	114.1	111.9	108.7	106.9
75°	94.4	93.5	91.3	89.9	88.1
77.5°	74.7	74.3	72.9	72.0	70.7
80°	56.4	56.4	55.5	55.0	54.1
82.5°	40.3	39.4	39.4	38.5	38.5
85°	24.6	25.1	25.1	24.6	23.7
87.5°	12.1	12.1	11.6	11.6	10.7
90°	1.0	8.9	15.7	20.6	22.6
92.5°	14.7	80.6	392.1	104.6	72.7
95°	32.4	95.8	870.7	395.0	230.9
97.5°	50.1	103.7	940.5	713.4	506.1
100°	68.8	118.9	887.4	1008.3	766.5
102.5°	89.4	136.2	794.0	1257.8	1057.4
105°	111.0	155.2	712.5	1402.8	1302.1
107.5°	131.7	175.4	651.5	1443.6	1449.5
110°	154.3	196.6	611.3	1404.8	1516.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	176.9	217.7	587.7	1323.7	1508.5
115°	198.5	239.3	571.9	1232.8	1450.5
117.5°	218.2	261.4	563.1	1150.3	1363.0
120°	237.8	282.5	557.2	1081.0	1278.5
122.5°	258.5	303.2	552.3	1025.5	1203.8
125°	275.2	322.4	548.4	980.8	1142.9
127.5°	288.9	341.0	546.4	942.4	1086.9
130°	301.7	358.7	544.4	903.6	1042.7
132.5°	311.5	374.4	544.4	861.8	998.4
135°	322.3	387.6	544.4	822.0	949.3
137.5°	336.1	400.0	545.4	780.2	898.2
140°	347.9	410.3	546.4	742.0	844.2
142.5°	361.6	420.1	547.4	709.0	794.0
145°	375.4	429.9	546.4	680.6	748.8
147.5°	390.1	438.8	544.4	656.0	708.5
150°	402.9	446.6	541.5	635.8	676.1
152.5°	416.7	454.5	537.5	618.6	650.6
155°	428.5	460.9	532.6	601.9	628.0
157.5°	439.3	467.3	527.7	586.2	607.3
160°	450.1	472.2	522.8	570.4	586.7
162.5°	458.9	477.1	516.9	556.2	568.0
165°	467.8	480.6	511.0	542.0	550.3
167.5°	473.7	482.5	505.1	528.7	533.6
170°	479.6	485.0	500.2	515.9	518.9
172.5°	483.5	486.0	494.3	505.6	505.1
175°	486.4	486.4	490.4	496.3	494.3
177.5°	488.4	486.4	487.4	490.4	487.4
180°	487.4	487.4	487.4	487.4	487.4

(END OF REPORT)