

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: P1027961

Luminaire Tested: S125DIP-B375D850UB40-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027961
REPORT IS A COMBINATION OF REPORTS P1002107 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B375D850UB40-4F0-XX-W2A-F
Description: Define 5 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

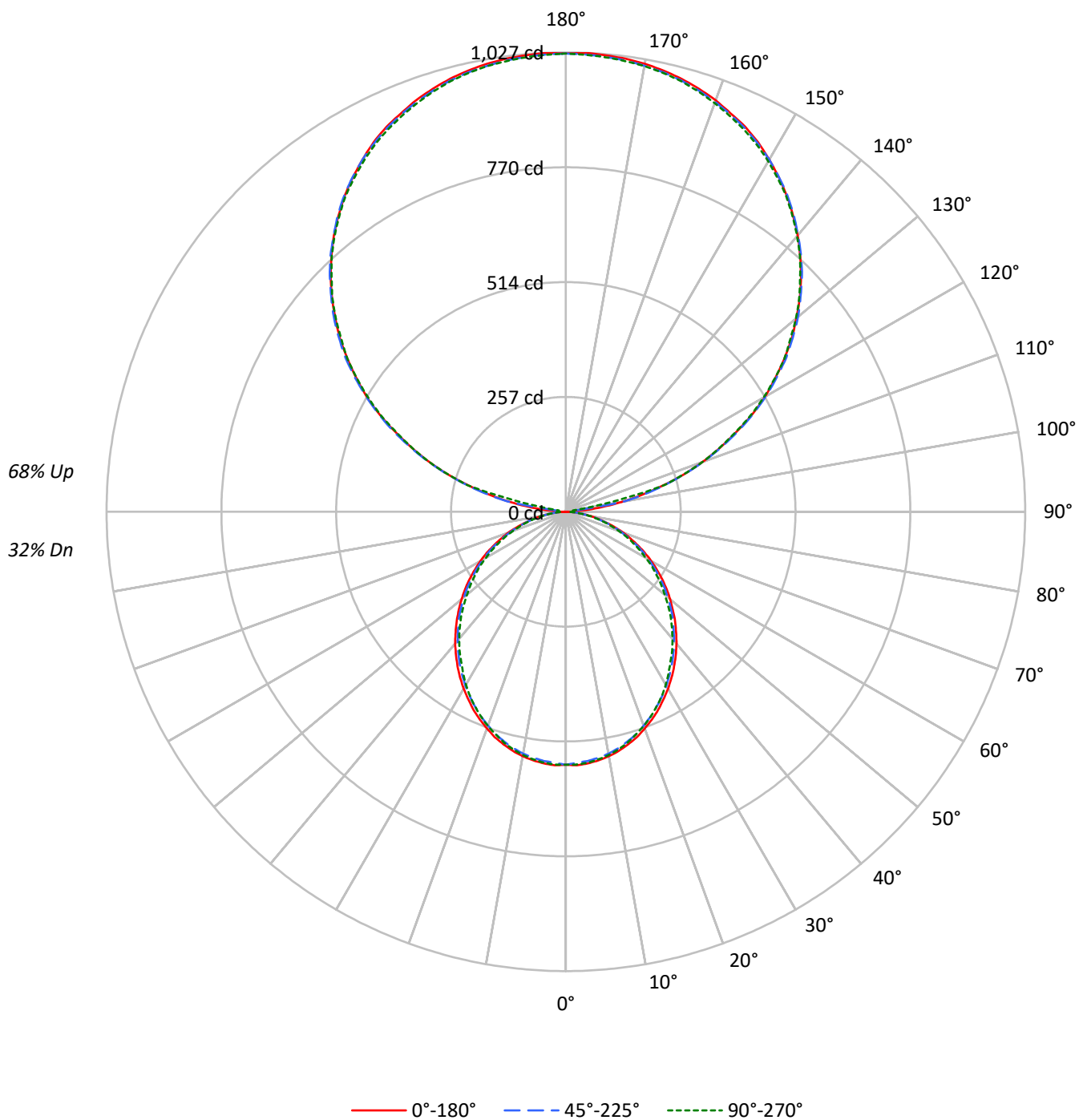
Lumens per Lamp: N/A
Luminaire Lumens: 4621.0 lumens
Efficiency: N/A
Efficacy: 135.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 34.1
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	103	103	103	103	93	93	93	93	73	73	73	56	56	56	39	39	39
1	94	89	86	82	84	81	77	75	64	62	60	49	47	46	35	34	33
2	85	78	72	67	76	70	65	61	56	53	50	43	41	38	31	29	28
3	78	69	61	56	70	62	56	51	49	45	42	38	35	32	27	25	24
4	71	61	53	47	64	55	48	43	44	39	35	34	30	28	24	22	20
5	65	54	46	40	58	49	42	37	39	34	30	30	27	24	22	20	18
6	60	48	40	35	54	44	37	32	35	30	26	27	24	21	20	17	16
7	55	43	36	30	50	39	33	28	32	27	23	25	21	18	18	16	14
8	51	39	32	27	46	36	29	24	29	24	20	22	19	16	16	14	12
9	48	36	28	24	43	32	26	22	26	22	18	21	17	15	15	13	11
10	44	33	26	21	40	30	24	19	24	20	16	19	16	13	14	12	10

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	1.2
10°-20°	150.7	3.3
20°-30°	222.5	4.8
30°-40°	259.6	5.6
40°-50°	260.8	5.6
50°-60°	228.9	5.0
60°-70°	170.5	3.7
70°-80°	97.4	2.1
80°-90°	29.6	0.6
90°-100°	34.8	0.8
100°-110°	231.2	5.0
110°-120°	416.4	9.0
120°-130°	534.5	11.6
130°-140°	574.9	12.4
140°-150°	539.6	11.7
150°-160°	436.4	9.4
160°-170°	282.3	6.1
170°-180°	97.3	2.1
0°-30°	426.7	9.2
0°-40°	686.3	14.9
0°-60°	1176.0	25.4
0°-90°	1473.5	31.9
90°-120°	682.5	14.8
90°-150°	2331.4	50.5
90°-180°	3147.0	68.1
0°-180°	4621.0	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	7	12	16	18	4
95°	43	41	12	16	16	53
105°	223	226	226	226	226	237
115°	419	423	424	421	416	416
125°	596	602	602	598	596	533
135°	744	748	747	745	741	573
145°	862	864	864	864	860	539
155°	949	945	946	949	943	437
165°	1002	997	998	1003	996	283
175°	1025	1020	1021	1027	1020	98
180°	1025	1025	1025	1025	1025	

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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°	0.8	6.8	12.2	16.0	18.2
92.5°	14.4	7.6	12.2	16.0	16.7
95°	43.3	41.0	12.2	16.0	16.0
97.5°	81.3	85.8	13.7	15.2	16.0
100°	126.8	129.1	132.2	19.0	16.0
102.5°	173.2	176.2	177.7	179.3	115.5
105°	223.3	226.3	226.3	226.3	225.6
107.5°	275.0	275.0	276.5	277.2	274.2
110°	325.1	325.1	326.6	324.3	325.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	372.2	374.5	375.2	372.2	370.7
115°	419.3	423.1	423.8	420.8	416.2
117.5°	468.6	468.6	471.7	467.1	465.6
120°	514.2	513.5	515.7	514.2	510.4
122.5°	554.5	558.3	559.0	557.5	553.0
125°	596.3	601.6	601.6	598.5	596.3
127.5°	636.5	640.3	639.5	638.0	632.0
130°	673.0	676.8	677.5	675.2	671.4
132.5°	709.4	714.0	711.7	711.7	707.9
135°	743.6	748.2	746.6	745.1	740.6
137.5°	775.5	780.1	778.5	778.5	774.7
140°	806.6	808.2	807.4	808.9	804.4
142.5°	834.8	835.5	837.0	837.0	832.5
145°	862.1	863.6	863.6	864.4	859.8
147.5°	886.4	886.4	887.2	887.9	882.6
150°	909.2	907.7	909.2	910.7	904.6
152.5°	931.2	927.4	928.9	930.5	925.1
155°	949.4	944.9	946.4	948.7	942.6
157.5°	963.9	961.6	961.6	963.9	957.8
160°	979.1	974.5	975.3	978.3	972.2
162.5°	991.2	986.7	987.4	992.0	985.1
165°	1001.9	997.3	998.1	1002.6	996.5
167.5°	1010.2	1005.7	1006.4	1011.7	1004.9
170°	1017.0	1011.7	1012.5	1018.6	1011.7
172.5°	1021.6	1016.3	1017.8	1023.1	1016.3
175°	1024.6	1020.1	1020.8	1026.9	1020.1
177.5°	1026.9	1022.4	1023.1	1028.4	1022.4
180°	1024.6	1024.6	1024.6	1024.6	1024.6

(END OF REPORT)